



ENVIRONMENTAL DYNAMICS INC.  
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Date Received: 07-MAY-15  
Report Date: 17-JUN-15 15:09 (MT)  
Version: FINAL

Client Phone: 867-393-4882

## Certificate of Analysis

**Lab Work Order #:** L1608599  
**Project P.O. #:** NOT SUBMITTED  
**Job Reference:** MOUNT NANSEN 15-Y-0146  
**C of C Numbers:** 1, 2, 3, 4, 5  
**Legal Site Desc:**

Can Dang  
Senior Account Manager

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## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                             |   | Sample ID    | L1608599-1           | L1608599-2      | L1608599-3      | L1608599-4      | L1608599-5      |
|-----------------------------|---|--------------|----------------------|-----------------|-----------------|-----------------|-----------------|
|                             |   | Description  | Water                | Water           | Water           | Water           | Water           |
|                             |   | Sampled Date | 04-MAY-15            | 04-MAY-15       | 04-MAY-15       | 04-MAY-15       | 05-MAY-15       |
|                             |   | Sampled Time | 16:45                | 16:05           | 18:30           | 13:30           | 08:18           |
|                             |   | Client ID    | 0146-150504-036      | 0146-150504-034 | 0146-150504-033 | 0146-150504-035 | 0146-150505-025 |
| Grouping                    | Analyte                                   |              |                      |                 |                 |                 |                 |
| <b>WATER</b>                |   |              |                      |                 |                 |                 |                 |
| <b>Physical Tests</b>       | Conductivity (uS/cm)                      |              | 214                  | 234             | 757             | 215             | 346             |
|                             | Hardness (as CaCO3) (mg/L)                |              | 111                  | 114             | 391             | 102             | 163             |
|                             | pH (pH)                                   |              | 8.07                 | 8.10            | 7.93            | 8.09            | 7.53            |
|                             | Total Suspended Solids (mg/L)             |              | 8.7                  | 6.0             | 7.3             | 6.0             | 18.0            |
|                             | Total Dissolved Solids (mg/L)             |              | 129                  | 132             | 518             | 112             | 214             |
| <b>Anions and Nutrients</b> | Alkalinity, Bicarbonate (as CaCO3) (mg/L) |              | 68.4                 | 71.7            | 46.7            | 53.7            | 17.7            |
|                             | Alkalinity, Carbonate (as CaCO3) (mg/L)   |              | <1.0                 | <1.0            | <1.0            | <1.0            | <1.0            |
|                             | Alkalinity, Hydroxide (as CaCO3) (mg/L)   |              | <1.0                 | <1.0            | <1.0            | <1.0            | <1.0            |
|                             | Alkalinity, Total (as CaCO3) (mg/L)       |              | 68.4                 | 71.7            | 46.7            | 53.7            | 17.7            |
|                             | Ammonia, Total (as N) (mg/L)              |              | 0.0050               | 0.0061          | <0.0050         | 0.0051          | 0.0140          |
|                             | Chloride (Cl) (mg/L)                      |              | <0.50                | <0.50           | <0.50           | <0.50           | <0.50           |
|                             | Fluoride (F) (mg/L)                       |              | 0.046                | 0.053           | 0.363           | 0.054           | 0.078           |
|                             | Nitrate (as N) (mg/L)                     |              | 0.0089               | 0.0103          | 0.117           | 0.0073          | 0.155           |
|                             | Nitrite (as N) (mg/L)                     |              | <0.0010              | <0.0010         | 0.0011          | <0.0010         | 0.0029          |
|                             | Sulfate (SO4) (mg/L)                      |              | 45.1                 | 45.6            | 342             | 40.6            | 139             |
|                             | Anion Sum (meq/L)                         |              | 2.31                 | 2.39            | 8.07            | 1.92            | 3.26            |
|                             | Cation Sum (meq/L)                        |              | 2.37                 | 2.42            | 7.90            | 2.19            | 3.31            |
|                             | Cation - Anion Balance (%)                |              | 1.4                  | 0.8             | -1.1            | 6.5             | 0.8             |
| <b>Cyanides</b>             | Cyanide, Weak Acid Diss (mg/L)            |              | <0.0050              | <0.0050         | <0.0050         | <0.0050         |                 |
|                             | Cyanide, Total (mg/L)                     |              | <0.0050              | <0.0050         | <0.0050         | <0.0050         |                 |
|                             | Cyanate (mg/L)                            |              | <2.0 <sup>DLIS</sup> | <0.20           | <0.20           | <0.20           |                 |
|                             | Thiocyanate (SCN) (mg/L)                  |              | <0.50                | <0.50           | <0.50           | 0.54            | <0.50           |
| <b>Total Metals</b>         | Aluminum (Al)-Total (mg/L)                |              | 0.315                | 0.242           | 0.0511          | 0.355           | 0.403           |
|                             | Antimony (Sb)-Total (mg/L)                |              | 0.00036              | 0.00035         | 0.00754         | 0.00037         | 0.00268         |
|                             | Arsenic (As)-Total (mg/L)                 |              | 0.00387              | 0.00367         | 0.0644          | 0.00377         | 0.0194          |
|                             | Barium (Ba)-Total (mg/L)                  |              | 0.0579               | 0.0581          | 0.00291         | 0.0626          | 0.0124          |
|                             | Beryllium (Be)-Total (mg/L)               |              | <0.000020            | <0.000020       | <0.000020       | 0.000021        | 0.000032        |
|                             | Bismuth (Bi)-Total (mg/L)                 |              | <0.000050            | <0.000050       | 0.000110        | <0.000050       | 0.000209        |
|                             | Boron (B)-Total (mg/L)                    |              | <0.010               | <0.010          | <0.010          | <0.010          | <0.010          |
|                             | Cadmium (Cd)-Total (mg/L)                 |              | 0.0000642            | 0.0000584       | 0.00211         | 0.0000810       | 0.00128         |
|                             | Calcium (Ca)-Total (mg/L)                 |              | 30.9                 | 30.1            | 128             | 28.4            | 58.1            |
|                             | Chromium (Cr)-Total (mg/L)                |              | 0.00062              | 0.00044         | 0.00016         | 0.00055         | 0.00043         |
|                             | Cobalt (Co)-Total (mg/L)                  |              | 0.00025              | 0.00022         | <0.00010        | 0.00028         | 0.00031         |
|                             | Copper (Cu)-Total (mg/L)                  |              | 0.00200              | 0.00204         | 0.00120         | 0.00253         | 0.0434          |
|                             | Iron (Fe)-Total (mg/L)                    |              | 0.414                | 0.375           | 0.203           | 0.570           | 0.881           |
|                             | Lead (Pb)-Total (mg/L)                    |              | 0.00114              | 0.00104         | 0.00767         | 0.00123         | 0.0131          |
|                             | Lithium (Li)-Total (mg/L)                 |              | <0.0010              | <0.0010         | 0.0026          | <0.0010         | <0.0010         |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                             |   | Sample ID    | L1608599-6      | L1608599-7      | L1608599-8              | L1608599-9              | L1608599-10     |
|-----------------------------|---|--------------|-----------------|-----------------|-------------------------|-------------------------|-----------------|
|                             |   | Description  | Water           | Water           | Water                   | Water                   | Water           |
|                             |   | Sampled Date | 04-MAY-15       | 05-MAY-15       | 04-MAY-15               | 05-MAY-15               | 05-MAY-15       |
|                             |   | Sampled Time | 13:25           | 13:45           | 16:25                   | 10:35                   | 10:20           |
|                             |   | Client ID    | 0146-150504-037 | 0146-150505-020 | 0146-150504-FIELD BLANK | 0146-150505-024         | 0146-150505-023 |
| Grouping                    | Analyte                                   |              |                 |                 |                         |                         |                 |
| <b>WATER</b>                |   |              |                 |                 |                         |                         |                 |
| <b>Physical Tests</b>       | Conductivity (uS/cm)                      |              | 217             | 198             | <2.0                    | 840                     | 846             |
|                             | Hardness (as CaCO3) (mg/L)                |              | 101             | 94.5            | <0.50                   | 465                     | 474             |
|                             | pH (pH)                                   |              | 8.09            | 8.05            | 5.49                    | 8.24                    | 8.25            |
|                             | Total Suspended Solids (mg/L)             |              | 6.0             | 24.7            | <3.0                    | <3.0                    | <3.0            |
|                             | Total Dissolved Solids (mg/L)             |              | 120             | 101             | <1.0                    | 562                     | 582             |
| <b>Anions and Nutrients</b> | Alkalinity, Bicarbonate (as CaCO3) (mg/L) |              | 67.1            | 58.8            | <1.0                    | 105                     | 130             |
|                             | Alkalinity, Carbonate (as CaCO3) (mg/L)   |              | <1.0            | <1.0            | <1.0                    | <1.0                    | <1.0            |
|                             | Alkalinity, Hydroxide (as CaCO3) (mg/L)   |              | <1.0            | <1.0            | <1.0                    | <1.0                    | <1.0            |
|                             | Alkalinity, Total (as CaCO3) (mg/L)       |              | 67.1            | 58.8            | <1.0                    | 105                     | 130             |
|                             | Ammonia, Total (as N) (mg/L)              |              | <0.0050         | <0.0050         | <0.0050                 | 0.417                   | 0.414           |
|                             | Chloride (Cl) (mg/L)                      |              | <0.50           | <0.50           | <0.50                   | <0.50                   | <0.50           |
|                             | Fluoride (F) (mg/L)                       |              | 0.057           | 0.059           | <0.020                  | 0.074                   | 0.075           |
|                             | Nitrate (as N) (mg/L)                     |              | 0.0075          | 0.0232          | <0.0050                 | 0.0396                  | 0.0395          |
|                             | Nitrite (as N) (mg/L)                     |              | <0.0010         | <0.0010         | <0.0010                 | 0.0021                  | 0.0021          |
|                             | Sulfate (SO4) (mg/L)                      |              | 40.8            | 28.8            | <0.30                   | 326                     | 327             |
|                             | Anion Sum (meq/L)                         |              | 2.19            | 1.78            | <0.10                   | 8.89                    | 9.42            |
|                             | Cation Sum (meq/L)                        |              | 2.17            | 2.03            | <0.10                   | 9.76                    | 9.95            |
|                             | Cation - Anion Balance (%)                |              | -0.5            | 6.6             | 0.0                     | 4.7                     | 2.8             |
| <b>Cyanides</b>             | Cyanide, Weak Acid Diss (mg/L)            |              | <0.0050         | <0.0050         | <0.0050                 | <0.0050                 | <0.0050         |
|                             | Cyanide, Total (mg/L)                     |              | <0.0050         | <0.0050         | <0.0050                 | <0.0050                 | <0.0050         |
|                             | Cyanate (mg/L)                            |              | <0.20           | <0.20           | <0.20                   | <0.20                   | <0.20           |
|                             | Thiocyanate (SCN) (mg/L)                  |              | 0.54            | <0.50           | <0.50                   | 0.52                    | 0.54            |
| <b>Total Metals</b>         | Aluminum (Al)-Total (mg/L)                |              | 0.331           | 1.57            | <0.0030                 | 0.0319                  | 0.0391          |
|                             | Antimony (Sb)-Total (mg/L)                |              | 0.00035         | 0.00062         | <0.00010                | 0.00227                 | 0.00259         |
|                             | Arsenic (As)-Total (mg/L)                 |              | 0.00341         | 0.0118          | <0.00010                | 0.0130                  | 0.0148          |
|                             | Barium (Ba)-Total (mg/L)                  |              | 0.0585          | 0.0860          | <0.000050               | 0.0449                  | 0.0473          |
|                             | Beryllium (Be)-Total (mg/L)               |              | <0.000020       | 0.000064        | <0.000020               | <0.000020               | <0.000020       |
|                             | Bismuth (Bi)-Total (mg/L)                 |              | <0.000050       | 0.000160        | <0.000050               | <0.000050               | <0.000050       |
|                             | Boron (B)-Total (mg/L)                    |              | <0.010          | <0.010          | <0.010                  | 0.014                   | 0.015           |
|                             | Cadmium (Cd)-Total (mg/L)                 |              | 0.0000684       | 0.000268        | <0.0000050              | 0.000164                | 0.000171        |
|                             | Calcium (Ca)-Total (mg/L)                 |              | 26.4            | 26.2            | <0.050                  | 118                     | 124             |
|                             | Chromium (Cr)-Total (mg/L)                |              | 0.00051         | 0.00166         | <0.00010                | <0.00050 <sup>DLB</sup> | 0.00021         |
|                             | Cobalt (Co)-Total (mg/L)                  |              | 0.00024         | 0.00075         | <0.00010                | 0.00118                 | 0.00125         |
|                             | Copper (Cu)-Total (mg/L)                  |              | 0.00246         | 0.00519         | <0.00050                | 0.00207                 | 0.00181         |
|                             | Iron (Fe)-Total (mg/L)                    |              | 0.534           | 2.26            | <0.010                  | 0.629                   | 0.668           |
|                             | Lead (Pb)-Total (mg/L)                    |              | 0.00115         | 0.00765         | <0.000050               | 0.000902                | 0.00134         |
|                             | Lithium (Li)-Total (mg/L)                 |              | 0.0011          | 0.0014          | <0.0010                 | 0.0018                  | 0.0021          |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID<br>Description<br>Sampled Date<br>Sampled Time<br>Client ID |   | L1608599-11<br>Water<br>05-MAY-15<br>16:46<br>0146-150505-030 | L1608599-12<br>Water<br>05-MAY-15<br>17:15<br>0146-150505-029 | L1608599-13<br>Water<br>05-MAY-15<br>12:20<br>0146-150505-022 | L1608599-14<br>Water<br>05-MAY-15<br>16:25<br>0146-150505-028 | L1608599-15<br>Water<br>05-MAY-15<br>11:35<br>0146-150505-021 |
|---|---|---|---|---|---|---|
| Grouping  | Analyte                                   |   |   |   |   |   |
| <b>WATER</b>  |   |   |   |   |   |   |
| <b>Physical Tests</b>   | Conductivity (uS/cm)                      | 748   | 810   | 168   | 1540  | 171   |
|   | Hardness (as CaCO3) (mg/L)                | 346   | 464   | 84.1  | 856   | 82.2  |
|   | pH (pH)                                   | 7.64  | 8.18  | 8.07  | 8.00  | 8.09  |
|   | Total Suspended Solids (mg/L)             | 4.0   | 155   | 24.0  | 48.7  | 10.0  |
|   | Total Dissolved Solids (mg/L)             | 507   | 553   | 92.2  | 1190  | 82.3  |
| <b>Anions and Nutrients</b>   | Alkalinity, Bicarbonate (as CaCO3) (mg/L) | 24.8  | 123   | 70.9  | 194   | 57.4  |
|   | Alkalinity, Carbonate (as CaCO3) (mg/L)   | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  |
|   | Alkalinity, Hydroxide (as CaCO3) (mg/L)   | <1.0  | <1.0  | <1.0  | <1.0  | <1.0  |
|   | Alkalinity, Total (as CaCO3) (mg/L)       | 24.8  | 123   | 70.9  | 194   | 57.4  |
|   | Ammonia, Total (as N) (mg/L)              | 0.218   | 0.0480  | <0.0050   | 4.14  | <0.0050   |
|   | Chloride (Cl) (mg/L)                      | <0.50   | <0.50   | <0.50   | <2.5 <sup>DLA</sup>   | <0.50   |
|   | Fluoride (F) (mg/L)                       | 0.133   | 0.077   | 0.049   | <0.10 <sup>DLA</sup>  | 0.047   |
|   | Nitrate (as N) (mg/L)                     | 0.0873  | 0.0097  | 0.0287  | 0.317   | 0.0287  |
|   | Nitrite (as N) (mg/L)                     | 0.0033  | <0.0010   | <0.0010   | 0.0154  | <0.0010   |
|   | Sulfate (SO4) (mg/L)                      | 351   | 312   | 17.0  | 703   | 15.9  |
|   | Anion Sum (meq/L)                         | 7.83  | 8.96  | 1.77  | 18.5  | 1.48  |
|   | Cation Sum (meq/L)                        | 7.26  | 9.59  | 1.81  | 20.0  | 1.77  |
|   | Cation - Anion Balance (%)                | -3.8  | 3.4   | 1.0   | 3.8   | 8.9   |
| <b>Cyanides</b>   | Cyanide, Weak Acid Diss (mg/L)            | <0.0050   | <0.0050   | <0.0050   | 0.0084  | <0.0050   |
|   | Cyanide, Total (mg/L)                     | <0.0050   | <0.0050   | <0.0050   | 0.0530  | <0.0050   |
|   | Cyanate (mg/L)                            | <0.20   | <2.0 <sup>DLIS</sup>  | <0.20   | 0.33  | 0.25  |
|   | Thiocyanate (SCN) (mg/L)                  | <0.50   | 0.52  | <0.50   | 3.75  | <0.50   |
| <b>Total Metals</b>   | Aluminum (Al)-Total (mg/L)                | 0.0670  | 2.66  | 0.432   | 0.0567  | 0.356   |
|   | Antimony (Sb)-Total (mg/L)                | 0.0114  | 0.00249   | 0.00022   | 0.00068   | 0.00017   |
|   | Arsenic (As)-Total (mg/L)                 | 0.0141  | 0.0224  | 0.00327   | 0.0732  | 0.00258   |
|   | Barium (Ba)-Total (mg/L)                  | 0.00655   | 0.0766  | 0.0654  | 0.0674  | 0.0642  |
|   | Beryllium (Be)-Total (mg/L)               | 0.000031  | 0.000092  | 0.000024  | <0.000020   | 0.000020  |
|   | Bismuth (Bi)-Total (mg/L)                 | <0.000050   | <0.000050   | 0.000065  | <0.000050   | <0.000050   |
|   | Boron (B)-Total (mg/L)                    | 0.022   | 0.012   | <0.010  | 0.061   | <0.010  |
|   | Cadmium (Cd)-Total (mg/L)                 | 0.0176  | 0.000294  | 0.0000767   | 0.000487  | 0.0000714   |
|   | Calcium (Ca)-Total (mg/L)                 | 121   | 112   | 21.6  | 256   | 21.7  |
|   | Chromium (Cr)-Total (mg/L)                | 0.00010   | 0.00455   | 0.00056   | 0.00056   | 0.00057   |
|   | Cobalt (Co)-Total (mg/L)                  | 0.00171   | 0.00192   | 0.00027   | 0.00769   | 0.00024   |
|   | Copper (Cu)-Total (mg/L)                  | 0.0608  | 0.00796   | 0.00299   | 0.00447   | 0.00247   |
|   | Iron (Fe)-Total (mg/L)                    | 0.216   | 7.20  | 0.659   | 17.5  | 0.544   |
|   | Lead (Pb)-Total (mg/L)                    | 0.00283   | 0.00295   | 0.00208   | 0.000536  | 0.00155   |
|   | Lithium (Li)-Total (mg/L)                 | 0.0023  | 0.0044  | <0.0010   | 0.0013  | <0.0010   |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID<br>Description<br>Sampled Date<br>Sampled Time<br>Client ID | L1608599-16<br>Water<br><br>0146-1505-<br>TRAVEL BLANK | L1608599-17<br>Water<br>05-MAY-15<br>14:45<br>0146-150505-019 | L1608599-18<br>Water<br>05-MAY-15<br>16:50<br>0146-150505-026 | L1608599-19<br>Water<br>05-MAY-15<br>15:55<br>0146-150505-027 | L1608599-20<br>Water<br>06-MAY-15<br>08:45<br>0146-150506-001 |           |
|---|--|---|---|---|---|-----------|
| Grouping  | Analyte  |   |   |   |   |           |
| <b>WATER</b>  |  |   |   |   |   |           |
| <b>Physical Tests</b>   | Conductivity (uS/cm)                                   | <2.0  | 173   | 210   | 901   | 373       |
|   | Hardness (as CaCO3) (mg/L)                             |   | 87.8  | 99.4  | 501   | 180       |
|   | pH (pH)  | 5.55  | 7.74  | 7.75  | 8.20  | 5.71      |
|   | Total Suspended Solids (mg/L)                          | <3.0  | 9.3   | 17.3  | 148   | <3.0      |
|   | Total Dissolved Solids (mg/L)                          | <1.0  | 106   | 121   | 621   | 231       |
| <b>Anions and Nutrients</b>   | Alkalinity, Bicarbonate (as CaCO3) (mg/L)              | <1.0  | 39.2  | 40.6  | 125   | 3.5       |
|   | Alkalinity, Carbonate (as CaCO3) (mg/L)                | <1.0  | <1.0  | <1.0  | <1.0  | <1.0      |
|   | Alkalinity, Hydroxide (as CaCO3) (mg/L)                | <1.0  | <1.0  | <1.0  | <1.0  | <1.0      |
|   | Alkalinity, Total (as CaCO3) (mg/L)                    | <1.0  | 39.2  | 40.6  | 125   | 3.5       |
|   | Ammonia, Total (as N) (mg/L)                           | <0.0050   | 0.0078  | 0.0085  | 0.537   | 0.0066    |
|   | Chloride (Cl) (mg/L)                                   | <0.50   | <0.50   | <0.50   | <1.0 <sup>DLA</sup>   | <0.50     |
|   | Fluoride (F) (mg/L)                                    | <0.020  | 0.056   | 0.057   | 0.046   | 0.054     |
|   | Nitrate (as N) (mg/L)                                  | 0.0094  | <0.0050   | 0.0104  | 0.047   | <0.0050   |
|   | Nitrite (as N) (mg/L)                                  | <0.0010   | <0.0010   | <0.0010   | 0.0024  | <0.0010   |
|   | Sulfate (SO4) (mg/L)                                   | 0.43  | 46.0  | 55.5  | 360   | 162       |
|   | Anion Sum (meq/L)                                      | <0.10   | 1.74  | 1.97  | 10.0  | 3.45      |
|   | Cation Sum (meq/L)                                     | <0.10   | 1.94  | 2.18  | 10.6  | 3.78      |
|   | Cation - Anion Balance (%)                             | -55.0   | 5.4   | 5.0   | 2.7   | 4.6       |
| <b>Cyanides</b>   | Cyanide, Weak Acid Diss (mg/L)                         | <0.0050   | <0.0050   | <0.0050   | <0.0050   | <0.0050   |
|   | Cyanide, Total (mg/L)                                  | <0.0050   | <0.0050   | <0.0050   | <0.0050   | <0.0050   |
|   | Cyanate (mg/L)   | <0.20   | 0.26  | 0.28  | 0.21  | 0.21      |
|   | Thiocyanate (SCN) (mg/L)                               | <0.50   | 1.18  | 1.09  | 0.66  | 1.18      |
| <b>Total Metals</b>   | Aluminum (Al)-Total (mg/L)                             | <0.0030   | 1.25  | 0.990   | 1.89  | 0.273     |
|   | Antimony (Sb)-Total (mg/L)                             | <0.00010  | 0.00065   | 0.00113   | 0.00231   | <0.00010  |
|   | Arsenic (As)-Total (mg/L)                              | <0.00010  | 0.00942   | 0.0156  | 0.0335  | 0.00163   |
|   | Barium (Ba)-Total (mg/L)                               | <0.000050   | 0.0491  | 0.0488  | 0.0746  | 0.0171    |
|   | Beryllium (Be)-Total (mg/L)                            | <0.000020   | 0.000050  | 0.000051  | 0.000078  | 0.000034  |
|   | Bismuth (Bi)-Total (mg/L)                              | <0.000050   | <0.000050   | 0.000072  | <0.000050   | <0.000050 |
|   | Boron (B)-Total (mg/L)                                 | <0.010  | <0.010  | <0.010  | 0.014   | <0.010    |
|   | Cadmium (Cd)-Total (mg/L)                              | <0.0000050  | 0.000138  | 0.00179   | 0.000348  | 0.00318   |
|   | Calcium (Ca)-Total (mg/L)                              | <0.050  | 26.7  | 30.3  | 130   | 46.6      |
|   | Chromium (Cr)-Total (mg/L)                             | <0.00010  | 0.00111   | 0.00104   | 0.00373   | 0.00020   |
|   | Cobalt (Co)-Total (mg/L)                               | <0.00010  | 0.00072   | 0.00066   | 0.00250   | <0.00010  |
|   | Copper (Cu)-Total (mg/L)                               | <0.00050  | 0.00481   | 0.0126  | 0.00762   | 0.00274   |
|   | Iron (Fe)-Total (mg/L)                                 | <0.010  | 1.44  | 1.31  | 8.78  | 0.150     |
|   | Lead (Pb)-Total (mg/L)                                 | <0.000050   | 0.00328   | 0.00694   | 0.00390   | 0.000059  |
|   | Lithium (Li)-Total (mg/L)                              | <0.0010   | <0.0010   | 0.0010  | 0.0036  | <0.0010   |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                             |   | Sample ID    | L1608599-21     | L1608599-22            | L1608599-23     | L1608599-24     | L1608599-25     |
|-----------------------------|---|--------------|-----------------|------------------------|-----------------|-----------------|-----------------|
|                             |   | Description  | Water           | Water                  | Water           | Water           | Water           |
|                             |   | Sampled Date | 06-MAY-15       | 06-MAY-15              | 06-MAY-15       | 06-MAY-15       | 06-MAY-15       |
|                             |   | Sampled Time | 08:15           | 09:45                  | 09:25           | 11:10           | 08:20           |
|                             |   | Client ID    | 0146-150506-006 | 0146-150506-004        | 0146-150506-002 | 0146-150506-005 | 0146-150506-003 |
| Grouping                    | Analyte                                   |              |                 |                        |                 |                 |                 |
| <b>WATER</b>                |   |              |                 |                        |                 |                 |                 |
| <b>Physical Tests</b>       | Conductivity (uS/cm)                      |              | 56.7            | 1160                   | 863             | 181             | 659             |
|                             | Hardness (as CaCO3) (mg/L)                |              | 30.5            | 702                    | 505             | 75.8            | 301             |
|                             | pH (pH)                                   |              | 6.12            | 8.31                   | 8.33            | 7.93            | 5.03            |
|                             | Total Suspended Solids (mg/L)             |              | <3.0            | 279                    | <3.0            | 15.3            | 23.3            |
|                             | Total Dissolved Solids (mg/L)             |              | 27.8            | 844                    | 594             | 103             | 423             |
| <b>Anions and Nutrients</b> | Alkalinity, Bicarbonate (as CaCO3) (mg/L) |              | 5.6             | 159                    | 160             | 47.0            | <1.0            |
|                             | Alkalinity, Carbonate (as CaCO3) (mg/L)   |              | <1.0            | 1.6                    | 3.5             | <1.0            | <1.0            |
|                             | Alkalinity, Hydroxide (as CaCO3) (mg/L)   |              | <1.0            | <1.0                   | <1.0            | <1.0            | <1.0            |
|                             | Alkalinity, Total (as CaCO3) (mg/L)       |              | 5.6             | 161                    | 163             | 47.0            | <1.0            |
|                             | Ammonia, Total (as N) (mg/L)              |              | 0.0060          | 0.0111                 | 0.109           | 0.0073          | 0.0130          |
|                             | Chloride (Cl) (mg/L)                      |              | <0.50           | <1.0 <sup>DLA</sup>    | <0.50           | <0.50           | <0.50           |
|                             | Fluoride (F) (mg/L)                       |              | 0.050           | 0.112                  | 0.124           | 0.053           | 0.065           |
|                             | Nitrate (as N) (mg/L)                     |              | <0.0050         | 0.030                  | <0.0050         | <0.0050         | 0.0080          |
|                             | Nitrite (as N) (mg/L)                     |              | <0.0010         | <0.0020 <sup>DLA</sup> | <0.0010         | <0.0010         | <0.0010         |
|                             | Sulfate (SO4) (mg/L)                      |              | 10.2            | 499                    | 314             | 34.8            | 316             |
|                             | Anion Sum (meq/L)                         |              | 0.33            | 13.6                   | 9.80            | 1.67            | 6.58            |
|                             | Cation Sum (meq/L)                        |              | 0.73            | 14.3                   | 10.4            | 1.86            | 6.28            |
|                             | Cation - Anion Balance (%)                |              | 38.3            | 2.6                    | 3.0             | 5.5             | -2.3            |
| <b>Cyanides</b>             | Cyanide, Weak Acid Diss (mg/L)            |              | <0.0050         | <0.0050                | <0.0050         | <0.0050         | <0.0050         |
|                             | Cyanide, Total (mg/L)                     |              | <0.0050         | <0.0050                | <0.0050         | <0.0050         | <0.0050         |
|                             | Cyanate (mg/L)                            |              | 0.24            | <0.20                  | <0.20           | <0.20           | <0.20           |
|                             | Thiocyanate (SCN) (mg/L)                  |              | 1.49            | <0.50                  | <0.50           | 0.90            | 1.01            |
| <b>Total Metals</b>         | Aluminum (Al)-Total (mg/L)                |              | 0.279           | 6.05                   | 0.0207          | 0.225           | 0.396           |
|                             | Antimony (Sb)-Total (mg/L)                |              | <0.00010        | 0.101                  | 0.00849         | 0.00093         | <0.00010        |
|                             | Arsenic (As)-Total (mg/L)                 |              | 0.00134         | 0.806                  | 0.0107          | 0.0128          | 0.00212         |
|                             | Barium (Ba)-Total (mg/L)                  |              | 0.0384          | 0.128                  | 0.0237          | 0.0166          | 0.0179          |
|                             | Beryllium (Be)-Total (mg/L)               |              | 0.000023        | 0.000290               | <0.000020       | <0.000020       | 0.000041        |
|                             | Bismuth (Bi)-Total (mg/L)                 |              | <0.000050       | 0.00429                | <0.000050       | <0.000050       | <0.000050       |
|                             | Boron (B)-Total (mg/L)                    |              | <0.010          | 0.033                  | 0.013           | <0.010          | <0.010          |
|                             | Cadmium (Cd)-Total (mg/L)                 |              | 0.0000622       | 0.0128                 | 0.00126         | 0.0000396       | 0.00714         |
|                             | Calcium (Ca)-Total (mg/L)                 |              | 9.23            | 171                    | 130             | 21.1            | 78.1            |
|                             | Chromium (Cr)-Total (mg/L)                |              | 0.00021         | 0.00782                | 0.00012         | 0.00041         | 0.00024         |
|                             | Cobalt (Co)-Total (mg/L)                  |              | <0.00010        | 0.00469                | 0.00029         | 0.00017         | 0.00012         |
|                             | Copper (Cu)-Total (mg/L)                  |              | 0.00360         | 0.104                  | 0.00245         | 0.00261         | 0.00260         |
|                             | Iron (Fe)-Total (mg/L)                    |              | 0.107           | 18.4                   | 0.255           | 0.434           | 0.185           |
|                             | Lead (Pb)-Total (mg/L)                    |              | <0.000050       | 0.698                  | 0.000530        | 0.000461        | 0.000113        |
|                             | Lithium (Li)-Total (mg/L)                 |              | <0.0010         | 0.0088                 | 0.0046          | <0.0010         | 0.0012          |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                             |   | Sample ID                      | L1608599-26     | L1608599-27            | L1608599-28            | L1608599-29           | L1608599-30     |
|-----------------------------|---|--------------------------------|-----------------|------------------------|------------------------|-----------------------|-----------------|
|                             |   | Description                    | Water           | Water                  | Water                  | Water                 | Water           |
|                             |   | Sampled Date                   | 06-MAY-15       | 06-MAY-15              | 06-MAY-15              | 06-MAY-15             | 06-MAY-15       |
|                             |   | Sampled Time                   | 10:23           | 10:25                  | 12:45                  | 11:55                 | 12:00           |
|                             |   | Client ID                      | 0146-150506-031 | 0146-150506-032        | 0146-150506-010        | 0146-150506-009       | 0146-150506-016 |
| Grouping                    | Analyte                                   |                                |                 |                        |                        |                       |                 |
| <b>WATER</b>                |   |                                |                 |                        |                        |                       |                 |
| <b>Physical Tests</b>       | Conductivity (uS/cm)                      |                                | 143             | 1050                   | 1820                   | 2750                  | 270             |
|                             | Hardness (as CaCO3) (mg/L)                |                                | 68.9            | 605                    | 692                    | 1830                  | 165             |
|                             | pH (pH)                                   |                                | 7.50            | 8.24                   | 3.31                   | 4.63                  | 7.98            |
|                             | Total Suspended Solids (mg/L)             |                                | 4.0             | 4.7                    | 136                    | 136                   | <3.0            |
|                             | Total Dissolved Solids (mg/L)             |                                | 82.4            | 714                    | 1340                   | 2700                  | 174             |
| <b>Anions and Nutrients</b> | Alkalinity, Bicarbonate (as CaCO3) (mg/L) |                                | 29.8            | 193                    | <1.0                   | <1.0                  | 56.7            |
|                             | Alkalinity, Carbonate (as CaCO3) (mg/L)   |                                | <1.0            | <1.0                   | <1.0                   | <1.0                  | <1.0            |
|                             | Alkalinity, Hydroxide (as CaCO3) (mg/L)   |                                | <1.0            | <1.0                   | <1.0                   | <1.0                  | <1.0            |
|                             | Alkalinity, Total (as CaCO3) (mg/L)       |                                | 29.8            | 193                    | <1.0                   | <1.0                  | 56.7            |
|                             | Ammonia, Total (as N) (mg/L)              |                                | 0.0081          | 0.0292 <sup>DLA</sup>  | 0.0649 <sup>DLA</sup>  | <0.0050               | 0.184           |
|                             | Chloride (Cl) (mg/L)                      |                                | <0.50           | <1.0                   | <2.5                   | <5.0                  | <0.50           |
|                             | Fluoride (F) (mg/L)                       |                                | 0.069           | 0.191 <sup>DLA</sup>   | 0.24 <sup>DLA</sup>    | 0.78 <sup>DLA</sup>   | 0.302           |
|                             | Nitrate (as N) (mg/L)                     |                                | <0.0050         | <0.010 <sup>DLA</sup>  | <0.025 <sup>DLA</sup>  | <0.050 <sup>DLA</sup> | 0.0910          |
|                             | Nitrite (as N) (mg/L)                     |                                | <0.0010         | <0.0020 <sup>DLA</sup> | <0.0050 <sup>DLA</sup> | <0.010 <sup>DLA</sup> | 0.0077          |
|                             | Sulfate (SO4) (mg/L)                      |                                | 32.3            | 379                    | 1010                   | 2030                  | 77.2            |
|                             | Anion Sum (meq/L)                         |                                | 1.27            | 11.8                   | 21.1                   | 42.3                  | 2.76            |
|                             | Cation Sum (meq/L)                        |                                | 1.61            | 12.5                   | 19.1                   | 39.4                  | 3.40            |
|                             | Cation - Anion Balance (%)                |                                | 11.9            | 3.1                    | -5.0                   | -3.5                  | 10.4            |
|                             | <b>Cyanides</b>                           | Cyanide, Weak Acid Diss (mg/L) |                 | <0.0050                | <0.0050                | <0.0050               | <0.0050         |
| Cyanide, Total (mg/L)       |   |                                | <0.0050         | <0.0050                | <0.0050                | <0.0050               | <0.0050         |
| Cyanate (mg/L)              |   |                                | 0.27            | <0.20                  | 0.52                   | <0.20                 | 0.25            |
| Thiocyanate (SCN) (mg/L)    |   |                                | 1.44            | <0.50                  | <0.50                  | <0.50                 | <0.50           |
| <b>Total Metals</b>         | Aluminum (Al)-Total (mg/L)                |                                | 0.498           | 0.0778                 | 3.70                   | 7.94                  | 0.0944          |
|                             | Antimony (Sb)-Total (mg/L)                |                                | 0.00191         | 0.0157                 | 0.00683                | 0.00147               | 0.00212         |
|                             | Arsenic (As)-Total (mg/L)                 |                                | 0.0131          | 0.0780                 | 0.194                  | 0.0462                | 0.0165          |
|                             | Barium (Ba)-Total (mg/L)                  |                                | 0.0307          | 0.0154                 | 0.0203                 | 0.0236                | 0.00551         |
|                             | Beryllium (Be)-Total (mg/L)               |                                | 0.000037        | <0.000020              | 0.00078                | 0.00201               | <0.000020       |
|                             | Bismuth (Bi)-Total (mg/L)                 |                                | <0.000050       | <0.000050              | 0.00172 <sup>DLA</sup> | 0.0473 <sup>DLA</sup> | <0.000050       |
|                             | Boron (B)-Total (mg/L)                    |                                | <0.010          | <0.010                 | <0.050                 | <0.050                | <0.010          |
|                             | Cadmium (Cd)-Total (mg/L)                 |                                | 0.000634        | 0.00415                | 0.271                  | 0.306                 | 0.000268        |
|                             | Calcium (Ca)-Total (mg/L)                 |                                | 20.9            | 162                    | 134                    | 386                   | 41.4            |
|                             | Chromium (Cr)-Total (mg/L)                |                                | 0.00047         | 0.00016                | 0.00056                | 0.00236               | 0.00014         |
|                             | Cobalt (Co)-Total (mg/L)                  |                                | 0.00018         | 0.00100                | 0.0486                 | 0.0277                | <0.00010        |
|                             | Copper (Cu)-Total (mg/L)                  |                                | 0.00681         | 0.00344                | 0.455                  | 1.47                  | 0.00332         |
|                             | Iron (Fe)-Total (mg/L)                    |                                | 0.448           | 1.51                   | 49.8                   | 1.14                  | 0.114           |
|                             | Lead (Pb)-Total (mg/L)                    |                                | 0.00217         | 0.00371                | 0.0659                 | 0.00998               | 0.00236         |
|                             | Lithium (Li)-Total (mg/L)                 |                                | <0.0010         | 0.0086                 | 0.0056                 | 0.0099                | 0.0015          |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

|                             | <b>Sample ID</b><br><b>Description</b><br><b>Sampled Date</b><br><b>Sampled Time</b><br><b>Client ID</b> | L1608599-31                    |         |  |  |
|-----------------------------|--|--------------------------------|---------|--|--|
|                             |  | Water                          |         |  |  |
|                             |  | 06-MAY-15                      |         |  |  |
|                             |  | 13:20                          |         |  |  |
|                             |  | 0146-150506-018                |         |  |  |
| Grouping                    | Analyte  |                                |         |  |  |
| <b>WATER</b>                |  |                                |         |  |  |
| <b>Physical Tests</b>       | Conductivity (uS/cm)   | 2650                           |         |  |  |
|                             | Hardness (as CaCO3) (mg/L)   | 2520                           |         |  |  |
|                             | pH (pH)  | 7.85                           |         |  |  |
|                             | Total Suspended Solids (mg/L)  | 5.3                            |         |  |  |
|                             | Total Dissolved Solids (mg/L)  | 2700                           |         |  |  |
| <b>Anions and Nutrients</b> | Alkalinity, Bicarbonate (as CaCO3) (mg/L)  | 49.7                           |         |  |  |
|                             | Alkalinity, Carbonate (as CaCO3) (mg/L)  | <1.0                           |         |  |  |
|                             | Alkalinity, Hydroxide (as CaCO3) (mg/L)  | <1.0                           |         |  |  |
|                             | Alkalinity, Total (as CaCO3) (mg/L)  | 49.7                           |         |  |  |
|                             | Ammonia, Total (as N) (mg/L)   | 0.0246                         |         |  |  |
|                             | Chloride (Cl) (mg/L)   | <5.0 <sup>DLA</sup>            |         |  |  |
|                             | Fluoride (F) (mg/L)  | 0.37                           |         |  |  |
|                             | Nitrate (as N) (mg/L)  | 0.056                          |         |  |  |
|                             | Nitrite (as N) (mg/L)  | <0.010 <sup>DLA</sup>          |         |  |  |
|                             | Sulfate (SO4) (mg/L)   | 1790                           |         |  |  |
|                             | Anion Sum (meq/L)  | 38.2                           |         |  |  |
|                             | Cation Sum (meq/L)   | 50.6                           |         |  |  |
|                             | Cation - Anion Balance (%)   | 14.0                           |         |  |  |
|                             | <b>Cyanides</b>  | Cyanide, Weak Acid Diss (mg/L) | <0.0050 |  |  |
| Cyanide, Total (mg/L)       |  | <0.0050                        |         |  |  |
| Cyanate (mg/L)              |  | <0.20                          |         |  |  |
| Thiocyanate (SCN) (mg/L)    |  | <0.50                          |         |  |  |
| <b>Total Metals</b>         | Aluminum (Al)-Total (mg/L)   | 0.0097                         |         |  |  |
|                             | Antimony (Sb)-Total (mg/L)   | 0.00192                        |         |  |  |
|                             | Arsenic (As)-Total (mg/L)  | 0.00547                        |         |  |  |
|                             | Barium (Ba)-Total (mg/L)   | 0.00698                        |         |  |  |
|                             | Beryllium (Be)-Total (mg/L)  | <0.000040 <sup>DLA</sup>       |         |  |  |
|                             | Bismuth (Bi)-Total (mg/L)  | <0.00010 <sup>DLA</sup>        |         |  |  |
|                             | Boron (B)-Total (mg/L)   | <0.020 <sup>DLA</sup>          |         |  |  |
|                             | Cadmium (Cd)-Total (mg/L)  | 0.00583                        |         |  |  |
|                             | Calcium (Ca)-Total (mg/L)  | 552                            |         |  |  |
|                             | Chromium (Cr)-Total (mg/L)   | 0.00031                        |         |  |  |
|                             | Cobalt (Co)-Total (mg/L)   | <0.00020 <sup>DLA</sup>        |         |  |  |
|                             | Copper (Cu)-Total (mg/L)   | 0.0021                         |         |  |  |
|                             | Iron (Fe)-Total (mg/L)   | 0.022                          |         |  |  |
|                             | Lead (Pb)-Total (mg/L)   | 0.00053                        |         |  |  |
|                             | Lithium (Li)-Total (mg/L)  | 0.0056                         |         |  |  |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         |                                       | Sample ID    | L1608599-1      | L1608599-2      | L1608599-3      | L1608599-4      | L1608599-5      |
|-------------------------|---------------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                         |                                       | Description  | Water           | Water           | Water           | Water           | Water           |
|                         |                                       | Sampled Date | 04-MAY-15       | 04-MAY-15       | 04-MAY-15       | 04-MAY-15       | 05-MAY-15       |
|                         |                                       | Sampled Time | 16:45           | 16:05           | 18:30           | 13:30           | 08:18           |
|                         |                                       | Client ID    | 0146-150504-036 | 0146-150504-034 | 0146-150504-033 | 0146-150504-035 | 0146-150505-025 |
| Grouping                | Analyte                               |              |                 |                 |                 |                 |                 |
| <b>WATER</b>            |                                       |              |                 |                 |                 |                 |                 |
| <b>Total Metals</b>     | Magnesium (Mg)-Total (mg/L)           |              | 9.63            | 9.35            | 20.0            | 8.87            | 5.67            |
|                         | Manganese (Mn)-Total (mg/L)           |              | 0.0961          | 0.0870          | 0.322           | 0.0721          | 0.153           |
|                         | Mercury (Hg)-Total (mg/L)             |              | <0.0000050      | <0.0000050      | 0.0000151       | 0.0000062       | 0.0000101       |
|                         | Molybdenum (Mo)-Total (mg/L)          |              | 0.000376        | 0.000339        | 0.000200        | 0.000317        | 0.000197        |
|                         | Nickel (Ni)-Total (mg/L)              |              | 0.00073         | 0.00066         | <0.00050        | 0.00109         | <0.00050        |
|                         | Phosphorus (P)-Total (mg/L)           |              | <0.050          | <0.050          | <0.050          | <0.050          | 0.066           |
|                         | Potassium (K)-Total (mg/L)            |              | 1.40            | 1.34            | 2.39            | 1.62            | 1.74            |
|                         | Rubidium (Rb)-Total (mg/L)            |              | 0.00099         | 0.00109         | 0.00244         | 0.00120         | 0.00231         |
|                         | Selenium (Se)-Total (mg/L)            |              | <0.000050       | <0.000050       | 0.000074        | <0.000050       | 0.000141        |
|                         | Silicon (Si)-Total (mg/L)             |              | 4.97            | 4.77            | 3.65            | 5.16            | 2.07            |
|                         | Silver (Ag)-Total (mg/L)              |              | 0.000024        | 0.000023        | 0.000117        | 0.000030        | 0.000234        |
|                         | Sodium (Na)-Total (mg/L)              |              | 2.58            | 2.41            | 0.472           | 2.44            | 0.291           |
|                         | Strontium (Sr)-Total (mg/L)           |              | 0.228           | 0.229           | 0.127           | 0.210           | 0.134           |
|                         | Sulfur (S)-Total (mg/L)               |              | 16.9            | 16.6            | 127             | 15.5            | 53.0            |
|                         | Thallium (Tl)-Total (mg/L)            |              | <0.000010       | <0.000010       | 0.000021        | <0.000010       | 0.000046        |
|                         | Tin (Sn)-Total (mg/L)                 |              | <0.00010        | <0.00010        | <0.00010        | <0.00010        | <0.00010        |
|                         | Titanium (Ti)-Total (mg/L)            |              | 0.00889         | 0.00693         | <0.00030        | 0.00862         | 0.00468         |
|                         | Uranium (U)-Total (mg/L)              |              | 0.000391        | 0.000379        | 0.000199        | 0.000363        | 0.000173        |
|                         | Vanadium (V)-Total (mg/L)             |              | 0.00083         | 0.00076         | <0.00050        | 0.00090         | 0.00080         |
|                         | Zinc (Zn)-Total (mg/L)                |              | 0.0078          | 0.0071          | 0.130           | 0.0095          | 0.0667          |
|                         | Zirconium (Zr)-Total (mg/L)           |              |                 |                 |                 |                 |                 |
| <b>Dissolved Metals</b> | Dissolved Mercury Filtration Location |              | FIELD           | FIELD           | FIELD           | FIELD           | FIELD           |
|                         | Dissolved Metals Filtration Location  |              | FIELD           | FIELD           | FIELD           | FIELD           | FIELD           |
|                         | Aluminum (Al)-Dissolved (mg/L)        |              | 0.0206          | 0.0214          | 0.0014          | 0.0550          | 0.0073          |
|                         | Antimony (Sb)-Dissolved (mg/L)        |              | 0.00027         | 0.00029         | 0.00614         | 0.00027         | 0.00088         |
|                         | Arsenic (As)-Dissolved (mg/L)         |              | 0.00232         | 0.00232         | 0.0525          | 0.00206         | 0.00446         |
|                         | Barium (Ba)-Dissolved (mg/L)          |              | 0.0535          | 0.0563          | 0.00205         | 0.0579          | 0.00804         |
|                         | Beryllium (Be)-Dissolved (mg/L)       |              | <0.000020       | <0.000020       | <0.000020       | <0.000020       | <0.000020       |
|                         | Bismuth (Bi)-Dissolved (mg/L)         |              | <0.000050       | <0.000050       | <0.000050       | <0.000050       | <0.000050       |
|                         | Boron (B)-Dissolved (mg/L)            |              | <0.010          | <0.010          | <0.010          | <0.010          | <0.010          |
|                         | Cadmium (Cd)-Dissolved (mg/L)         |              | 0.0000460       | 0.0000417       | 0.00203         | 0.0000398       | 0.00103         |
|                         | Calcium (Ca)-Dissolved (mg/L)         |              | 29.4            | 30.1            | 125             | 26.5            | 56.4            |
|                         | Chromium (Cr)-Dissolved (mg/L)        |              | 0.00013         | 0.00012         | <0.00010        | 0.00017         | <0.00010        |
|                         | Cobalt (Co)-Dissolved (mg/L)          |              | 0.00014         | 0.00013         | <0.00010        | 0.00017         | 0.00020         |
|                         | Copper (Cu)-Dissolved (mg/L)          |              | 0.00155         | 0.00152         | 0.00068         | 0.00197         | 0.0227          |
|                         | Iron (Fe)-Dissolved (mg/L)            |              | 0.079           | 0.082           | <0.010          | 0.189           | 0.010           |
|                         | Lead (Pb)-Dissolved (mg/L)            |              | 0.000081        | 0.000087        | 0.000055        | 0.000095        | 0.000105        |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         |                                       | Sample ID    | L1608599-6      | L1608599-7      | L1608599-8              | L1608599-9              | L1608599-10     |
|-------------------------|---------------------------------------|--------------|-----------------|-----------------|-------------------------|-------------------------|-----------------|
|                         |                                       | Description  | Water           | Water           | Water                   | Water                   | Water           |
|                         |                                       | Sampled Date | 04-MAY-15       | 05-MAY-15       | 04-MAY-15               | 05-MAY-15               | 05-MAY-15       |
|                         |                                       | Sampled Time | 13:25           | 13:45           | 16:25                   | 10:35                   | 10:20           |
|                         |                                       | Client ID    | 0146-150504-037 | 0146-150505-020 | 0146-150504-FIELD BLANK | 0146-150505-024         | 0146-150505-023 |
| Grouping                | Analyte                               |              |                 |                 |                         |                         |                 |
| <b>WATER</b>            |                                       |              |                 |                 |                         |                         |                 |
| <b>Total Metals</b>     | Magnesium (Mg)-Total (mg/L)           |              | 8.53            | 7.51            | <0.10                   | 36.3                    | 37.9            |
|                         | Manganese (Mn)-Total (mg/L)           |              | 0.0687          | 0.274           | <0.00010                | 1.30                    | 1.39            |
|                         | Mercury (Hg)-Total (mg/L)             |              | 0.0000064       | 0.0000117       | <0.0000050              | <0.0000050              | <0.0000050      |
|                         | Molybdenum (Mo)-Total (mg/L)          |              | 0.000322        | 0.000741        | <0.000050               | 0.000283                | 0.000288        |
|                         | Nickel (Ni)-Total (mg/L)              |              | 0.00103         | 0.00166         | <0.00050                | 0.00090                 | 0.00098         |
|                         | Phosphorus (P)-Total (mg/L)           |              | <0.050          | <0.050          | <0.050                  | <0.050                  | <0.050          |
|                         | Potassium (K)-Total (mg/L)            |              | 1.52            | 1.62            | <0.10                   | 2.96                    | 3.08            |
|                         | Rubidium (Rb)-Total (mg/L)            |              | 0.00123         | 0.00300         | <0.00020                | 0.00174                 | 0.00176         |
|                         | Selenium (Se)-Total (mg/L)            |              | <0.000050       | 0.000052        | <0.000050               | 0.000067                | 0.000052        |
|                         | Silicon (Si)-Total (mg/L)             |              | 4.79            | 7.75            | <0.050                  | 4.14                    | 4.35            |
|                         | Silver (Ag)-Total (mg/L)              |              | 0.000026        | 0.000156        | <0.000010               | 0.000044                | 0.000043        |
|                         | Sodium (Na)-Total (mg/L)              |              | 2.38            | 2.18            | <0.050                  | 6.66                    | 6.95            |
|                         | Strontium (Sr)-Total (mg/L)           |              | 0.200           | 0.221           | <0.00020                | 0.377                   | 0.389           |
|                         | Sulfur (S)-Total (mg/L)               |              | 14.6            | 10.6            | <0.50                   | 118                     | 123             |
|                         | Thallium (Tl)-Total (mg/L)            |              | <0.000010       | 0.000032        | <0.000010               | 0.000011                | <0.000010       |
|                         | Tin (Sn)-Total (mg/L)                 |              | <0.00010        | <0.00010        | <0.00010                | <0.00010 <sup>DLM</sup> | <0.00010        |
|                         | Titanium (Ti)-Total (mg/L)            |              | 0.00830         | 0.0413          | <0.00030                | <0.0012                 | 0.00106         |
|                         | Uranium (U)-Total (mg/L)              |              | 0.000342        | 0.000903        | <0.000010               | 0.00115                 | 0.00126         |
|                         | Vanadium (V)-Total (mg/L)             |              | 0.00080         | 0.00339         | <0.00050                | <0.00050                | <0.00050        |
|                         | Zinc (Zn)-Total (mg/L)                |              | 0.0094          | 0.0227          | <0.0030                 | 0.0233                  | 0.0258          |
|                         | Zirconium (Zr)-Total (mg/L)           |              | <0.00030        |                 |                         |                         |                 |
| <b>Dissolved Metals</b> | Dissolved Mercury Filtration Location |              | FIELD           | FIELD           | FIELD                   | FIELD                   | FIELD           |
|                         | Dissolved Metals Filtration Location  |              | FIELD           | FIELD           | FIELD                   | FIELD                   | FIELD           |
|                         | Aluminum (Al)-Dissolved (mg/L)        |              | 0.0542          | 0.0348          | <0.0010                 | 0.0234                  | 0.0217          |
|                         | Antimony (Sb)-Dissolved (mg/L)        |              | 0.00025         | 0.00015         | <0.00010                | 0.00221                 | 0.00230         |
|                         | Arsenic (As)-Dissolved (mg/L)         |              | 0.00204         | 0.00120         | <0.00010                | 0.0113                  | 0.0118          |
|                         | Barium (Ba)-Dissolved (mg/L)          |              | 0.0563          | 0.0619          | <0.000050               | 0.0460                  | 0.0446          |
|                         | Beryllium (Be)-Dissolved (mg/L)       |              | <0.000020       | <0.000020       | <0.000020               | <0.000020               | <0.000020       |
|                         | Bismuth (Bi)-Dissolved (mg/L)         |              | <0.000050       | <0.000050       | <0.000050               | <0.000050               | <0.000050       |
|                         | Boron (B)-Dissolved (mg/L)            |              | <0.010          | <0.010          | <0.010                  | 0.013                   | 0.012           |
|                         | Cadmium (Cd)-Dissolved (mg/L)         |              | 0.0000490       | 0.0000913       | <0.0000050              | 0.000140                | 0.000110        |
|                         | Calcium (Ca)-Dissolved (mg/L)         |              | 26.3            | 25.8            | <0.050                  | 122                     | 125             |
|                         | Chromium (Cr)-Dissolved (mg/L)        |              | 0.00016         | 0.00017         | <0.00010                | 0.00013                 | 0.00013         |
|                         | Cobalt (Co)-Dissolved (mg/L)          |              | 0.00016         | 0.00020         | <0.00010                | 0.00116                 | 0.00121         |
|                         | Copper (Cu)-Dissolved (mg/L)          |              | 0.00197         | 0.00225         | <0.00020                | 0.00155                 | 0.00153         |
|                         | Iron (Fe)-Dissolved (mg/L)            |              | 0.185           | 0.104           | <0.010                  | 0.482                   | 0.492           |
|                         | Lead (Pb)-Dissolved (mg/L)            |              | 0.000096        | 0.000178        | <0.000050               | 0.000255                | 0.000267        |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         |                                       | Sample ID    | L1608599-11     | L1608599-12              | L1608599-13     | L1608599-14     | L1608599-15     |
|-------------------------|---------------------------------------|--------------|-----------------|--------------------------|-----------------|-----------------|-----------------|
|                         |                                       | Description  | Water           | Water                    | Water           | Water           | Water           |
|                         |                                       | Sampled Date | 05-MAY-15       | 05-MAY-15                | 05-MAY-15       | 05-MAY-15       | 05-MAY-15       |
|                         |                                       | Sampled Time | 16:46           | 17:15                    | 12:20           | 16:25           | 11:35           |
|                         |                                       | Client ID    | 0146-150505-030 | 0146-150505-029          | 0146-150505-022 | 0146-150505-028 | 0146-150505-021 |
| Grouping                | Analyte                               |              |                 |                          |                 |                 |                 |
| <b>WATER</b>            |                                       |              |                 |                          |                 |                 |                 |
| <b>Total Metals</b>     | Magnesium (Mg)-Total (mg/L)           |              | 12.0            | 40.0                     | 6.87            | 53.8            | 6.97            |
|                         | Manganese (Mn)-Total (mg/L)           |              | 1.74            | 0.661                    | 0.105           | 6.76            | 0.0973          |
|                         | Mercury (Hg)-Total (mg/L)             |              | 0.0000060       | <0.000025 <sup>DLM</sup> | 0.0000063       | <0.0000050      | 0.0000058       |
|                         | Molybdenum (Mo)-Total (mg/L)          |              | 0.000446        | 0.000286                 | 0.000448        | 0.00104         | 0.000407        |
|                         | Nickel (Ni)-Total (mg/L)              |              | 0.00177         | 0.00403                  | 0.00089         | 0.00273         | 0.00085         |
|                         | Phosphorus (P)-Total (mg/L)           |              | <0.050          | 0.155                    | <0.050          | <0.050          | <0.050          |
|                         | Potassium (K)-Total (mg/L)            |              | 3.60            | 3.08                     | 1.17            | 5.85            | 1.21            |
|                         | Rubidium (Rb)-Total (mg/L)            |              | 0.00503         | 0.00440                  | 0.00144         | 0.00158         | 0.00108         |
|                         | Selenium (Se)-Total (mg/L)            |              | 0.000052        | 0.000165                 | <0.000050       | 0.000190        | 0.000051        |
|                         | Silicon (Si)-Total (mg/L)             |              | 1.05            | 8.16                     | 5.11            | 7.56            | 5.05            |
|                         | Silver (Ag)-Total (mg/L)              |              | 0.000074        | 0.000055                 | 0.000033        | 0.000075        | 0.000023        |
|                         | Sodium (Na)-Total (mg/L)              |              | 3.28            | 4.13                     | 2.02            | 32.3            | 1.99            |
|                         | Strontium (Sr)-Total (mg/L)           |              | 0.232           | 0.362                    | 0.222           | 0.758           | 0.221           |
|                         | Sulfur (S)-Total (mg/L)               |              | 121             | 112                      | 6.27            | 266             | 6.04            |
|                         | Thallium (Tl)-Total (mg/L)            |              | 0.000061        | 0.000044                 | 0.000013        | <0.000010       | <0.000010       |
|                         | Tin (Sn)-Total (mg/L)                 |              | <0.00010        | <0.00010                 | <0.00010        | <0.00010        | <0.00010        |
|                         | Titanium (Ti)-Total (mg/L)            |              | <0.00030        | 0.142                    | 0.0124          | 0.00257         | 0.0103          |
|                         | Uranium (U)-Total (mg/L)              |              | 0.000284        | 0.00162                  | 0.000544        | 0.00149         | 0.000499        |
|                         | Vanadium (V)-Total (mg/L)             |              | <0.00050        | 0.0102                   | 0.00119         | 0.00238         | 0.00098         |
|                         | Zinc (Zn)-Total (mg/L)                |              | 0.920           | 0.0507                   | 0.0069          | 0.0123          | 0.0059          |
|                         | Zirconium (Zr)-Total (mg/L)           |              |                 |                          |                 |                 |                 |
| <b>Dissolved Metals</b> | Dissolved Mercury Filtration Location |              | FIELD           | FIELD                    | FIELD           | FIELD           | FIELD           |
|                         | Dissolved Metals Filtration Location  |              | FIELD           | FIELD                    | FIELD           | FIELD           | FIELD           |
|                         | Aluminum (Al)-Dissolved (mg/L)        |              | 0.0052          | 0.0891                   | 0.0385          | 0.0174          | 0.0394          |
|                         | Antimony (Sb)-Dissolved (mg/L)        |              | 0.0109          | 0.00206                  | <0.00010        | 0.00052         | <0.00010        |
|                         | Arsenic (As)-Dissolved (mg/L)         |              | 0.00532         | 0.00502                  | 0.00065         | 0.0497          | 0.00058         |
|                         | Barium (Ba)-Dissolved (mg/L)          |              | 0.00575         | 0.0325                   | 0.0605          | 0.0644          | 0.0598          |
|                         | Beryllium (Be)-Dissolved (mg/L)       |              | <0.000020       | <0.000020                | <0.000020       | <0.000020       | <0.000020       |
|                         | Bismuth (Bi)-Dissolved (mg/L)         |              | <0.000050       | <0.000050                | <0.000050       | <0.000050       | <0.000050       |
|                         | Boron (B)-Dissolved (mg/L)            |              | 0.019           | <0.010                   | <0.010          | 0.057           | <0.010          |
|                         | Cadmium (Cd)-Dissolved (mg/L)         |              | 0.0171          | 0.0000863                | 0.0000502       | 0.000251        | 0.0000411       |
|                         | Calcium (Ca)-Dissolved (mg/L)         |              | 119             | 116                      | 22.1            | 254             | 21.5            |
|                         | Chromium (Cr)-Dissolved (mg/L)        |              | <0.00010        | 0.00012                  | <0.00010        | 0.00036         | 0.00014         |
|                         | Cobalt (Co)-Dissolved (mg/L)          |              | 0.00163         | 0.00044                  | 0.00011         | 0.00745         | 0.00011         |
|                         | Copper (Cu)-Dissolved (mg/L)          |              | 0.0449          | 0.00150                  | 0.00195         | 0.00178         | 0.00196         |
|                         | Iron (Fe)-Dissolved (mg/L)            |              | 0.011           | 0.740                    | 0.111           | 15.3            | 0.110           |
|                         | Lead (Pb)-Dissolved (mg/L)            |              | 0.000087        | 0.000075                 | 0.000101        | <0.000050       | 0.000089        |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID<br>Description<br>Sampled Date<br>Sampled Time<br>Client ID |                                       | L1608599-16<br>Water<br><br>0146-1505-<br>TRAVEL BLANK | L1608599-17<br>Water<br>05-MAY-15<br>14:45<br>0146-150505-019 | L1608599-18<br>Water<br>05-MAY-15<br>16:50<br>0146-150505-026 | L1608599-19<br>Water<br>05-MAY-15<br>15:55<br>0146-150505-027 | L1608599-20<br>Water<br>06-MAY-15<br>08:45<br>0146-150506-001 |
|---|---------------------------------------|--|---|---|---|---|
| Grouping  | Analyte                               |  |   |   |   |   |
| <b>WATER</b>  |                                       |  |   |   |   |   |
| <b>Total Metals</b>   | Magnesium (Mg)-Total (mg/L)           | <0.10  | 5.62  | 6.38  | 44.1  | 16.7  |
|   | Manganese (Mn)-Total (mg/L)           | <0.00010   | 0.235   | 0.220   | 1.52  | 0.143   |
|   | Mercury (Hg)-Total (mg/L)             | <0.0000050   | 0.0000163   | 0.0000128   | <0.000025 <sup>DLM</sup>                                      | 0.0000100   |
|   | Molybdenum (Mo)-Total (mg/L)          | <0.000050  | 0.000128  | 0.000126  | 0.000381  | <0.000050   |
|   | Nickel (Ni)-Total (mg/L)              | <0.00050   | 0.00144   | 0.00156   | 0.00377   | 0.00391   |
|   | Phosphorus (P)-Total (mg/L)           | <0.050   | <0.050  | <0.050  | 0.131   | <0.050  |
|   | Potassium (K)-Total (mg/L)            | <0.10  | 2.36  | 2.42  | 3.36  | 2.11  |
|   | Rubidium (Rb)-Total (mg/L)            | <0.00020   | 0.00315   | 0.00297   | 0.00361   | 0.00244   |
|   | Selenium (Se)-Total (mg/L)            | <0.000050  | <0.000050   | <0.000050   | 0.000145  | <0.000050   |
|   | Silicon (Si)-Total (mg/L)             | <0.050   | 4.93  | 4.52  | 7.40  | 3.16  |
|   | Silver (Ag)-Total (mg/L)              | <0.000010  | 0.000065  | 0.000103  | 0.000080  | <0.000010   |
|   | Sodium (Na)-Total (mg/L)              | <0.050   | 1.84  | 1.94  | 7.55  | 1.39  |
|   | Strontium (Sr)-Total (mg/L)           | <0.00020   | 0.192   | 0.207   | 0.421   | 0.119   |
|   | Sulfur (S)-Total (mg/L)               | <0.50  | 16.4  | 19.4  | 133   | 60.6  |
|   | Thallium (Tl)-Total (mg/L)            | <0.000010  | 0.000018  | 0.000017  | 0.000036  | <0.000010   |
|   | Tin (Sn)-Total (mg/L)                 | <0.00010   | <0.00010  | <0.00010  | <0.00010  | <0.00010  |
|   | Titanium (Ti)-Total (mg/L)            | <0.00030   | 0.0327  | 0.0281  | 0.0991  | 0.00086   |
|   | Uranium (U)-Total (mg/L)              | <0.000010  | 0.000190  | 0.000192  | 0.00176   | 0.000013  |
|   | Vanadium (V)-Total (mg/L)             | <0.00050   | 0.00248   | 0.00202   | 0.00875   | <0.00050  |
|   | Zinc (Zn)-Total (mg/L)                | <0.0030  | 0.0133  | 0.167   | 0.0511  | 1.13  |
|   | Zirconium (Zr)-Total (mg/L)           |  |   |   |   |   |
| <b>Dissolved Metals</b>   | Dissolved Mercury Filtration Location |  | FIELD   | FIELD   | FIELD   | FIELD   |
|   | Dissolved Metals Filtration Location  |  | FIELD   | FIELD   | FIELD   | FIELD   |
|   | Aluminum (Al)-Dissolved (mg/L)        |  | 0.205   | 0.186   | 0.0737  | 0.265   |
|   | Antimony (Sb)-Dissolved (mg/L)        |  | 0.00029   | 0.00039   | 0.00173   | <0.00010  |
|   | Arsenic (As)-Dissolved (mg/L)         |  | 0.00353   | 0.00373   | 0.00712   | 0.00160   |
|   | Barium (Ba)-Dissolved (mg/L)          |  | 0.0402  | 0.0391  | 0.0356  | 0.0159  |
|   | Beryllium (Be)-Dissolved (mg/L)       |  | 0.000028  | 0.000029  | <0.000020   | 0.000031  |
|   | Bismuth (Bi)-Dissolved (mg/L)         |  | <0.000050   | <0.000050   | <0.000050   | <0.000050   |
|   | Boron (B)-Dissolved (mg/L)            |  | <0.010  | <0.010  | 0.014   | <0.010  |
|   | Cadmium (Cd)-Dissolved (mg/L)         |  | 0.000102  | 0.00152   | 0.0000772   | 0.00320   |
|   | Calcium (Ca)-Dissolved (mg/L)         |  | 26.3  | 29.7  | 127   | 45.4  |
|   | Chromium (Cr)-Dissolved (mg/L)        |  | 0.00024   | 0.00020   | 0.00017   | 0.00015   |
|   | Cobalt (Co)-Dissolved (mg/L)          |  | 0.00040   | 0.00033   | 0.00128   | <0.00010  |
|   | Copper (Cu)-Dissolved (mg/L)          |  | 0.00333   | 0.00997   | 0.00153   | 0.00261   |
|   | Iron (Fe)-Dissolved (mg/L)            |  | 0.339   | 0.296   | 0.964   | 0.128   |
|   | Lead (Pb)-Dissolved (mg/L)            |  | 0.000200  | 0.000685  | 0.000066  | <0.000050   |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         |                                       | Sample ID    | L1608599-21     | L1608599-22     | L1608599-23     | L1608599-24     | L1608599-25     |
|-------------------------|---------------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                         |                                       | Description  | Water           | Water           | Water           | Water           | Water           |
|                         |                                       | Sampled Date | 06-MAY-15       | 06-MAY-15       | 06-MAY-15       | 06-MAY-15       | 06-MAY-15       |
|                         |                                       | Sampled Time | 08:15           | 09:45           | 09:25           | 11:10           | 08:20           |
|                         |                                       | Client ID    | 0146-150506-006 | 0146-150506-004 | 0146-150506-002 | 0146-150506-005 | 0146-150506-003 |
| Grouping                | Analyte                               |              |                 |                 |                 |                 |                 |
| <b>WATER</b>            |                                       |              |                 |                 |                 |                 |                 |
| <b>Total Metals</b>     | Magnesium (Mg)-Total (mg/L)           |              | 1.92            | 63.4            | 42.5            | 5.64            | 33.8            |
|                         | Manganese (Mn)-Total (mg/L)           |              | 0.00323         | 1.04            | 0.873           | 0.0154          | 0.399           |
|                         | Mercury (Hg)-Total (mg/L)             |              | 0.0000153       | 0.000112        | <0.0000050      | 0.0000101       | 0.0000113       |
|                         | Molybdenum (Mo)-Total (mg/L)          |              | <0.000050       | 0.000979        | 0.000209        | 0.000056        | <0.000050       |
|                         | Nickel (Ni)-Total (mg/L)              |              | 0.00156         | 0.00698         | 0.00077         | 0.00057         | 0.00439         |
|                         | Phosphorus (P)-Total (mg/L)           |              | <0.050          | 0.230           | <0.050          | 0.080           | <0.050          |
|                         | Potassium (K)-Total (mg/L)            |              | 1.77            | 7.12            | 3.98            | 11.6            | 2.38            |
|                         | Rubidium (Rb)-Total (mg/L)            |              | 0.00089         | 0.0162          | 0.00357         | 0.00357         | 0.00334         |
|                         | Selenium (Se)-Total (mg/L)            |              | <0.000050       | 0.000312        | <0.000050       | 0.000066        | <0.000050       |
|                         | Silicon (Si)-Total (mg/L)             |              | 2.63            | 19.1            | 5.73            | 6.28            | 3.21            |
|                         | Silver (Ag)-Total (mg/L)              |              | <0.000010       | 0.0106          | 0.000021        | 0.000054        | 0.000013        |
|                         | Sodium (Na)-Total (mg/L)              |              | 0.990           | 4.08            | 3.65            | 0.879           | 1.92            |
|                         | Strontium (Sr)-Total (mg/L)           |              | 0.0441          | 0.339           | 0.300           | 0.0597          | 0.192           |
|                         | Sulfur (S)-Total (mg/L)               |              | 4.24            | 184             | 119             | 12.9            | 115             |
|                         | Thallium (Tl)-Total (mg/L)            |              | <0.000010       | 0.000461        | 0.000015        | <0.000010       | <0.000010       |
|                         | Tin (Sn)-Total (mg/L)                 |              | <0.00010        | 0.00045         | <0.00010        | <0.00010        | <0.00010        |
|                         | Titanium (Ti)-Total (mg/L)            |              | 0.00091         | 0.197           | 0.00062         | 0.0119          | 0.00258         |
|                         | Uranium (U)-Total (mg/L)              |              | 0.000011        | 0.00271         | 0.00157         | 0.000033        | 0.000012        |
|                         | Vanadium (V)-Total (mg/L)             |              | <0.00050        | 0.0257          | <0.00050        | 0.00106         | <0.00050        |
|                         | Zinc (Zn)-Total (mg/L)                |              | 0.0099          | 1.06            | 0.235           | 0.0056          | 2.28            |
|                         | Zirconium (Zr)-Total (mg/L)           |              |                 |                 |                 |                 |                 |
| <b>Dissolved Metals</b> | Dissolved Mercury Filtration Location |              | FIELD           | FIELD           | FIELD           | FIELD           | FIELD           |
|                         | Dissolved Metals Filtration Location  |              | FIELD           | FIELD           | FIELD           | FIELD           | FIELD           |
|                         | Aluminum (Al)-Dissolved (mg/L)        |              | 0.270           | 0.0129          | 0.0109          | 0.0168          | 0.336           |
|                         | Antimony (Sb)-Dissolved (mg/L)        |              | <0.00010        | 0.0299          | 0.00842         | 0.00083         | <0.00010        |
|                         | Arsenic (As)-Dissolved (mg/L)         |              | 0.00134         | 0.0619          | 0.00974         | 0.0106          | 0.00154         |
|                         | Barium (Ba)-Dissolved (mg/L)          |              | 0.0381          | 0.0164          | 0.0237          | 0.0147          | 0.0142          |
|                         | Beryllium (Be)-Dissolved (mg/L)       |              | 0.000022        | <0.000020       | <0.000020       | <0.000020       | 0.000035        |
|                         | Bismuth (Bi)-Dissolved (mg/L)         |              | <0.000050       | <0.000050       | <0.000050       | <0.000050       | <0.000050       |
|                         | Boron (B)-Dissolved (mg/L)            |              | <0.010          | 0.027           | 0.013           | <0.010          | <0.010          |
|                         | Cadmium (Cd)-Dissolved (mg/L)         |              | 0.0000649       | 0.00371         | 0.00102         | 0.0000336       | 0.00609         |
|                         | Calcium (Ca)-Dissolved (mg/L)         |              | 9.09            | 174             | 129             | 21.1            | 69.0            |
|                         | Chromium (Cr)-Dissolved (mg/L)        |              | 0.00018         | <0.00010        | <0.00010        | 0.00011         | 0.00015         |
|                         | Cobalt (Co)-Dissolved (mg/L)          |              | <0.00010        | 0.00026         | 0.00029         | <0.00010        | <0.00010        |
|                         | Copper (Cu)-Dissolved (mg/L)          |              | 0.00346         | 0.0111          | 0.00209         | 0.00231         | 0.00245         |
|                         | Iron (Fe)-Dissolved (mg/L)            |              | 0.100           | 0.028           | 0.207           | 0.060           | 0.058           |
|                         | Lead (Pb)-Dissolved (mg/L)            |              | <0.000050       | 0.00170         | 0.000193        | 0.000134        | <0.000050       |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         |                                       | Sample ID    | L1608599-26     | L1608599-27     | L1608599-28              | L1608599-29             | L1608599-30     |
|-------------------------|---------------------------------------|--------------|-----------------|-----------------|--------------------------|-------------------------|-----------------|
|                         |                                       | Description  | Water           | Water           | Water                    | Water                   | Water           |
|                         |                                       | Sampled Date | 06-MAY-15       | 06-MAY-15       | 06-MAY-15                | 06-MAY-15               | 06-MAY-15       |
|                         |                                       | Sampled Time | 10:23           | 10:25           | 12:45                    | 11:55                   | 12:00           |
|                         |                                       | Client ID    | 0146-150506-031 | 0146-150506-032 | 0146-150506-010          | 0146-150506-009         | 0146-150506-016 |
| Grouping                | Analyte                               |              |                 |                 |                          |                         |                 |
| <b>WATER</b>            |                                       |              |                 |                 |                          |                         |                 |
| <b>Total Metals</b>     | Magnesium (Mg)-Total (mg/L)           |              | 4.49            | 53.5            | 81.6                     | 198                     | 9.80            |
|                         | Manganese (Mn)-Total (mg/L)           |              | 0.0292          | 1.23            | 36.5                     | 26.2                    | 0.0131          |
|                         | Mercury (Hg)-Total (mg/L)             |              | 0.0000177       | <0.0000050      | 0.0000222 <sup>DLA</sup> | 0.0000349               | <0.0000050      |
|                         | Molybdenum (Mo)-Total (mg/L)          |              | 0.000064        | 0.000318        | <0.00025 <sup>DLA</sup>  | 0.00179                 | 0.000140        |
|                         | Nickel (Ni)-Total (mg/L)              |              | 0.00125         | 0.00227         | 0.0118                   | 0.0231                  | <0.00050        |
|                         | Phosphorus (P)-Total (mg/L)           |              | 0.062           | <0.050          | 0.364                    | 0.055                   | <0.050          |
|                         | Potassium (K)-Total (mg/L)            |              | 6.12            | 3.53            | 4.19                     | 2.03                    | 2.54            |
|                         | Rubidium (Rb)-Total (mg/L)            |              | 0.00229         | 0.00462         | 0.0062 <sup>DLA</sup>    | 0.0038                  | 0.00483         |
|                         | Selenium (Se)-Total (mg/L)            |              | <0.000050       | <0.000050       | <0.00025 <sup>DLA</sup>  | 0.00028                 | 0.000056        |
|                         | Silicon (Si)-Total (mg/L)             |              | 4.76            | 6.36            | 4.23                     | 4.95                    | 1.47            |
|                         | Silver (Ag)-Total (mg/L)              |              | 0.000078        | 0.000052        | 0.00194                  | 0.000711                | 0.000053        |
|                         | Sodium (Na)-Total (mg/L)              |              | 0.798           | 4.40            | 0.27                     | 24.9                    | 0.290           |
|                         | Strontium (Sr)-Total (mg/L)           |              | 0.0582          | 0.364           | 0.208                    | 0.712                   | 0.108           |
|                         | Sulfur (S)-Total (mg/L)               |              | 12.2            | 141             | 309                      | 673                     | 27.8            |
|                         | Thallium (Tl)-Total (mg/L)            |              | 0.000018        | 0.000090        | 0.000129 <sup>DLA</sup>  | 0.000099                | <0.000010       |
|                         | Tin (Sn)-Total (mg/L)                 |              | <0.00010        | <0.00010        | <0.00050 <sup>DLA</sup>  | 0.00139 <sup>DLM</sup>  | <0.00010        |
|                         | Titanium (Ti)-Total (mg/L)            |              | 0.00724         | 0.00319         | 0.0016                   | <0.0048                 | 0.00069         |
|                         | Uranium (U)-Total (mg/L)              |              | 0.000061        | 0.00343         | 0.000706 <sup>DLA</sup>  | 0.000247 <sup>DLA</sup> | 0.000185        |
|                         | Vanadium (V)-Total (mg/L)             |              | 0.00096         | <0.00050        | <0.0025 <sup>DLA</sup>   | <0.0025 <sup>DLA</sup>  | <0.00050        |
|                         | Zinc (Zn)-Total (mg/L)                |              | 0.0794          | 1.11            | 22.9                     | 23.8                    | 0.0124          |
|                         | Zirconium (Zr)-Total (mg/L)           |              |                 |                 |                          |                         |                 |
| <b>Dissolved Metals</b> | Dissolved Mercury Filtration Location |              | FIELD           | FIELD           | FIELD                    | FIELD                   | FIELD           |
|                         | Dissolved Metals Filtration Location  |              | FIELD           | FIELD           | FIELD                    | FIELD                   | FIELD           |
|                         | Aluminum (Al)-Dissolved (mg/L)        |              | 0.312           | 0.0243          | 2.98 <sup>DLA</sup>      | 7.17 <sup>DLA</sup>     | 0.0050          |
|                         | Antimony (Sb)-Dissolved (mg/L)        |              | 0.00159         | 0.0155          | <0.00050 <sup>DLA</sup>  | <0.00050 <sup>DLA</sup> | 0.00209         |
|                         | Arsenic (As)-Dissolved (mg/L)         |              | 0.00991         | 0.0596          | 0.0136                   | 0.00214                 | 0.0159          |
|                         | Barium (Ba)-Dissolved (mg/L)          |              | 0.0271          | 0.0146          | 0.00336                  | 0.0172                  | 0.00617         |
|                         | Beryllium (Be)-Dissolved (mg/L)       |              | 0.000032        | <0.000020       | 0.00068 <sup>DLA</sup>   | 0.00169                 | <0.000020       |
|                         | Bismuth (Bi)-Dissolved (mg/L)         |              | <0.000050       | <0.000050       | <0.00025 <sup>DLA</sup>  | 0.00726 <sup>DLA</sup>  | <0.000050       |
|                         | Boron (B)-Dissolved (mg/L)            |              | <0.010          | <0.010          | <0.050 <sup>DLA</sup>    | <0.050 <sup>DLA</sup>   | <0.010          |
|                         | Cadmium (Cd)-Dissolved (mg/L)         |              | 0.000560        | 0.00153         | 0.278                    | 0.318                   | 0.000305        |
|                         | Calcium (Ca)-Dissolved (mg/L)         |              | 20.4            | 154             | 136 <sup>DLA</sup>       | 395 <sup>DLA</sup>      | 47.7            |
|                         | Chromium (Cr)-Dissolved (mg/L)        |              | 0.00029         | <0.00010        | <0.00050 <sup>DLA</sup>  | <0.00050 <sup>DLA</sup> | 0.00011         |
|                         | Cobalt (Co)-Dissolved (mg/L)          |              | 0.00014         | 0.00089         | 0.0513                   | 0.0276                  | <0.00010        |
|                         | Copper (Cu)-Dissolved (mg/L)          |              | 0.00651         | 0.00224         | 0.433                    | 1.45                    | 0.00343         |
|                         | Iron (Fe)-Dissolved (mg/L)            |              | 0.245           | 1.08            | 42.5                     | 0.116                   | <0.010          |
|                         | Lead (Pb)-Dissolved (mg/L)            |              | 0.000765        | 0.000390        | 0.00223                  | 0.00116                 | 0.000106        |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         | <b>Sample ID</b><br><b>Description</b><br><b>Sampled Date</b><br><b>Sampled Time</b><br><b>Client ID</b> | L1608599-31              |  |  |  |
|-------------------------|--|--------------------------|--|--|--|
|                         |  | Water                    |  |  |  |
|                         |  | 06-MAY-15                |  |  |  |
|                         |  | 13:20                    |  |  |  |
|                         |  | 0146-150506-018          |  |  |  |
| Grouping                | Analyte  |                          |  |  |  |
| <b>WATER</b>            |  |                          |  |  |  |
| <b>Total Metals</b>     | Magnesium (Mg)-Total (mg/L)  | 171                      |  |  |  |
|                         | Manganese (Mn)-Total (mg/L)  | 0.0660                   |  |  |  |
|                         | Mercury (Hg)-Total (mg/L)  | 0.0000063                |  |  |  |
|                         | Molybdenum (Mo)-Total (mg/L)   | 0.00011                  |  |  |  |
|                         | Nickel (Ni)-Total (mg/L)   | <0.0010 <sup>DLA</sup>   |  |  |  |
|                         | Phosphorus (P)-Total (mg/L)  | <0.050                   |  |  |  |
|                         | Potassium (K)-Total (mg/L)   | 4.54                     |  |  |  |
|                         | Rubidium (Rb)-Total (mg/L)   | 0.00268                  |  |  |  |
|                         | Selenium (Se)-Total (mg/L)   | 0.00031                  |  |  |  |
|                         | Silicon (Si)-Total (mg/L)  | 1.85                     |  |  |  |
|                         | Silver (Ag)-Total (mg/L)   | 0.000049                 |  |  |  |
|                         | Sodium (Na)-Total (mg/L)   | 0.52                     |  |  |  |
|                         | Strontium (Sr)-Total (mg/L)  | 0.769                    |  |  |  |
|                         | Sulfur (S)-Total (mg/L)  | 680                      |  |  |  |
|                         | Thallium (Tl)-Total (mg/L)   | 0.000053                 |  |  |  |
|                         | Tin (Sn)-Total (mg/L)  | <0.00020 <sup>DLA</sup>  |  |  |  |
|                         | Titanium (Ti)-Total (mg/L)   | <0.00060 <sup>DLA</sup>  |  |  |  |
|                         | Uranium (U)-Total (mg/L)   | 0.00148                  |  |  |  |
|                         | Vanadium (V)-Total (mg/L)  | <0.0010 <sup>DLA</sup>   |  |  |  |
|                         | Zinc (Zn)-Total (mg/L)   | 0.272                    |  |  |  |
|                         | Zirconium (Zr)-Total (mg/L)  | <0.00060 <sup>DLA</sup>  |  |  |  |
| <b>Dissolved Metals</b> | Dissolved Mercury Filtration Location  | FIELD                    |  |  |  |
|                         | Dissolved Metals Filtration Location   | FIELD                    |  |  |  |
|                         | Aluminum (Al)-Dissolved (mg/L)   | 0.0034                   |  |  |  |
|                         | Antimony (Sb)-Dissolved (mg/L)   | 0.00230                  |  |  |  |
|                         | Arsenic (As)-Dissolved (mg/L)  | 0.00596                  |  |  |  |
|                         | Barium (Ba)-Dissolved (mg/L)   | 0.0101 <sup>DTC</sup>    |  |  |  |
|                         | Beryllium (Be)-Dissolved (mg/L)  | <0.000040 <sup>DLA</sup> |  |  |  |
|                         | Bismuth (Bi)-Dissolved (mg/L)  | <0.00010 <sup>DLA</sup>  |  |  |  |
|                         | Boron (B)-Dissolved (mg/L)   | <0.020 <sup>DLA</sup>    |  |  |  |
|                         | Cadmium (Cd)-Dissolved (mg/L)  | 0.00742 <sup>DTC</sup>   |  |  |  |
|                         | Calcium (Ca)-Dissolved (mg/L)  | 683                      |  |  |  |
|                         | Chromium (Cr)-Dissolved (mg/L)   | <0.00020 <sup>DLA</sup>  |  |  |  |
|                         | Cobalt (Co)-Dissolved (mg/L)   | <0.00020 <sup>DLA</sup>  |  |  |  |
|                         | Copper (Cu)-Dissolved (mg/L)   | 0.00273                  |  |  |  |
|                         | Iron (Fe)-Dissolved (mg/L)   | <0.010                   |  |  |  |
|                         | Lead (Pb)-Dissolved (mg/L)   | <0.00010 <sup>DLA</sup>  |  |  |  |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID<br>Description<br>Sampled Date<br>Sampled Time<br>Client ID |                                  | L1608599-1<br>Water<br>04-MAY-15<br>16:45<br>0146-150504-036 | L1608599-2<br>Water<br>04-MAY-15<br>16:05<br>0146-150504-034 | L1608599-3<br>Water<br>04-MAY-15<br>18:30<br>0146-150504-033 | L1608599-4<br>Water<br>04-MAY-15<br>13:30<br>0146-150504-035 | L1608599-5<br>Water<br>05-MAY-15<br>08:18<br>0146-150505-025 |
|---|----------------------------------|--|--|--|--|--|
| Grouping  | Analyte                          |  |  |  |  |  |
| <b>WATER</b>  |                                  |  |  |  |  |  |
| <b>Dissolved Metals</b>   | Lithium (Li)-Dissolved (mg/L)    | <0.0010  | <0.0010  | 0.0026   | <0.0010  | <0.0010  |
|   | Magnesium (Mg)-Dissolved (mg/L)  | 9.16   | 9.37   | 19.1   | 8.57   | 5.37   |
|   | Manganese (Mn)-Dissolved (mg/L)  | 0.0803   | 0.0779   | 0.303  | 0.0610   | 0.136  |
|   | Mercury (Hg)-Dissolved (mg/L)    | <0.0000050   | <0.0000050   | 0.0000081  | <0.0000050   | <0.0000050   |
|   | Molybdenum (Mo)-Dissolved (mg/L) | 0.000318   | 0.000294   | 0.000212   | 0.000264   | 0.000149   |
|   | Nickel (Ni)-Dissolved (mg/L)     | 0.00056  | 0.00055  | <0.00050   | 0.00087  | <0.00050   |
|   | Phosphorus (P)-Dissolved (mg/L)  | <0.050   | <0.050   | <0.050   | <0.050   | <0.050   |
|   | Potassium (K)-Dissolved (mg/L)   | 1.30   | 1.34   | 2.32   | 1.48   | 1.41   |
|   | Selenium (Se)-Dissolved (mg/L)   | <0.000050  | <0.000050  | 0.000059   | <0.000050  | 0.000116   |
|   | Silicon (Si)-Dissolved (mg/L)    | 4.39   | 4.48   | 3.50   | 4.47   | 0.678  |
|   | Silver (Ag)-Dissolved (mg/L)     | <0.000010  | <0.000010  | <0.000010  | <0.000010  | <0.000010  |
|   | Sodium (Na)-Dissolved (mg/L)     | 2.51   | 2.44   | 0.562  | 2.37   | 0.312  |
|   | Strontium (Sr)-Dissolved (mg/L)  | 0.221  | 0.226  | 0.123  | 0.208  | 0.129  |
|   | Sulfur (S)-Dissolved (mg/L)      | 16.4   | 16.7   | 121  | 14.9   | 50.8   |
|   | Thallium (Tl)-Dissolved (mg/L)   | <0.000010  | <0.000010  | 0.000016   | <0.000010  | 0.000014   |
|   | Tin (Sn)-Dissolved (mg/L)        | <0.00010   | <0.00010   | <0.00010   | <0.00010   | <0.00010   |
|   | Titanium (Ti)-Dissolved (mg/L)   | 0.00040  | 0.00038  | <0.00030   | 0.00060  | <0.00030   |
|   | Uranium (U)-Dissolved (mg/L)     | 0.000350   | 0.000365   | 0.000187   | 0.000317   | 0.000125   |
|   | Vanadium (V)-Dissolved (mg/L)    | <0.00050   | <0.00050   | <0.00050   | <0.00050   | <0.00050   |
|   | Zinc (Zn)-Dissolved (mg/L)       | 0.0054   | 0.0056   | 0.124  | 0.0068   | 0.0364   |
|   | Zirconium (Zr)-Dissolved (mg/L)  |  |  |  |  |  |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.



## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample ID<br>Description<br>Sampled Date<br>Sampled Time<br>Client ID |                                  | L1608599-6<br>Water<br>04-MAY-15<br>13:25<br>0146-150504-037 | L1608599-7<br>Water<br>05-MAY-15<br>13:45<br>0146-150505-020 | L1608599-8<br>Water<br>04-MAY-15<br>16:25<br>0146-150504-<br>FIELD BLANK | L1608599-9<br>Water<br>05-MAY-15<br>10:35<br>0146-150505-024 | L1608599-10<br>Water<br>05-MAY-15<br>10:20<br>0146-150505-023 |
|---|----------------------------------|--|--|--|--|---|
| Grouping  | Analyte                          |  |  |  |  |   |
| <b>WATER</b>  |                                  |  |  |  |  |   |
| <b>Dissolved Metals</b>   | Lithium (Li)-Dissolved (mg/L)    | <0.0010  | <0.0010  | <0.0010  | 0.0018   | 0.0021  |
|   | Magnesium (Mg)-Dissolved (mg/L)  | 8.48   | 7.30   | <0.10  | 38.9   | 39.4  |
|   | Manganese (Mn)-Dissolved (mg/L)  | 0.0613   | 0.228  | <0.00010   | 1.34   | 1.34  |
|   | Mercury (Hg)-Dissolved (mg/L)    | <0.0000050   | <0.0000050   | <0.0000050   | <0.0000050   | <0.0000050  |
|   | Molybdenum (Mo)-Dissolved (mg/L) | 0.000262   | 0.000584   | <0.000050  | 0.000252   | 0.000267  |
|   | Nickel (Ni)-Dissolved (mg/L)     | 0.00084  | 0.00081  | <0.00050   | 0.00091  | 0.00095   |
|   | Phosphorus (P)-Dissolved (mg/L)  | <0.050   | <0.050   | <0.050   | <0.050   | <0.050  |
|   | Potassium (K)-Dissolved (mg/L)   | 1.45   | 1.23   | <0.10  | 3.08   | 3.08  |
|   | Selenium (Se)-Dissolved (mg/L)   | <0.000050  | <0.000050  | <0.000050  | <0.000050  | <0.000050   |
|   | Silicon (Si)-Dissolved (mg/L)    | 4.39   | 4.52   | <0.050   | 4.27   | 4.37  |
|   | Silver (Ag)-Dissolved (mg/L)     | <0.000010  | <0.000010  | <0.000010  | 0.000015   | 0.000013  |
|   | Sodium (Na)-Dissolved (mg/L)     | 2.41   | 2.14   | <0.050   | 6.78   | 6.90  |
|   | Strontium (Sr)-Dissolved (mg/L)  | 0.201  | 0.222  | <0.00020   | 0.377  | 0.379   |
|   | Sulfur (S)-Dissolved (mg/L)      | 14.8   | 10.6   | <0.50  | 118  | 119   |
|   | Thallium (Tl)-Dissolved (mg/L)   | <0.000010  | <0.000010  | <0.000010  | <0.000010  | <0.000010   |
|   | Tin (Sn)-Dissolved (mg/L)        | <0.00010   | <0.00010   | <0.00010   | <0.00010   | <0.00010  |
|   | Titanium (Ti)-Dissolved (mg/L)   | 0.00065  | 0.00078  | <0.00030   | <0.00090 <sup>DLM</sup>                                      | <0.00090 <sup>DLM</sup>                                       |
|   | Uranium (U)-Dissolved (mg/L)     | 0.000321   | 0.000773   | <0.000010  | 0.00117  | 0.00119   |
|   | Vanadium (V)-Dissolved (mg/L)    | <0.00050   | <0.00050   | <0.00050   | <0.00050   | <0.00050  |
|   | Zinc (Zn)-Dissolved (mg/L)       | 0.0061   | 0.0039   | 0.0013   | 0.0225   | 0.0237  |
|   | Zirconium (Zr)-Dissolved (mg/L)  | <0.00030   |  |  |  |   |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         |                                  | Sample ID    | L1608599-11     | L1608599-12     | L1608599-13     | L1608599-14            | L1608599-15     |
|-------------------------|----------------------------------|--------------|-----------------|-----------------|-----------------|------------------------|-----------------|
|                         |                                  | Description  | Water           | Water           | Water           | Water                  | Water           |
|                         |                                  | Sampled Date | 05-MAY-15       | 05-MAY-15       | 05-MAY-15       | 05-MAY-15              | 05-MAY-15       |
|                         |                                  | Sampled Time | 16:46           | 17:15           | 12:20           | 16:25                  | 11:35           |
|                         |                                  | Client ID    | 0146-150505-030 | 0146-150505-029 | 0146-150505-022 | 0146-150505-028        | 0146-150505-021 |
| Grouping                | Analyte                          |              |                 |                 |                 |                        |                 |
| <b>WATER</b>            |                                  |              |                 |                 |                 |                        |                 |
| <b>Dissolved Metals</b> | Lithium (Li)-Dissolved (mg/L)    |              | 0.0023          | 0.0026          | <0.0010         | 0.0012                 | <0.0010         |
|                         | Magnesium (Mg)-Dissolved (mg/L)  |              | 11.8            | 42.5            | 7.01            | 53.9                   | 6.92            |
|                         | Manganese (Mn)-Dissolved (mg/L)  |              | 1.69            | 0.538           | 0.0884          | 6.67                   | 0.0780          |
|                         | Mercury (Hg)-Dissolved (mg/L)    |              | <0.0000050      | <0.0000050      | <0.0000050      | <0.0000050             | <0.0000050      |
|                         | Molybdenum (Mo)-Dissolved (mg/L) |              | 0.000419        | 0.000162        | 0.000387        | 0.000922               | 0.000368        |
|                         | Nickel (Ni)-Dissolved (mg/L)     |              | 0.00167         | 0.00082         | 0.00064         | 0.00262                | 0.00061         |
|                         | Phosphorus (P)-Dissolved (mg/L)  |              | <0.050          | <0.050          | <0.050          | <0.050                 | <0.050          |
|                         | Potassium (K)-Dissolved (mg/L)   |              | 3.44            | 2.93            | 1.13            | 5.75                   | 1.12            |
|                         | Selenium (Se)-Dissolved (mg/L)   |              | <0.000050       | <0.000050       | <0.000050       | 0.000193               | <0.000050       |
|                         | Silicon (Si)-Dissolved (mg/L)    |              | 1.00            | 4.40            | 4.60            | 7.40                   | 4.61            |
|                         | Silver (Ag)-Dissolved (mg/L)     |              | <0.000010       | <0.000010       | <0.000010       | <0.000010              | <0.000010       |
|                         | Sodium (Na)-Dissolved (mg/L)     |              | 3.24            | 3.99            | 2.02            | 31.6                   | 2.02            |
|                         | Strontium (Sr)-Dissolved (mg/L)  |              | 0.226           | 0.357           | 0.225           | 0.724                  | 0.222           |
|                         | Sulfur (S)-Dissolved (mg/L)      |              | 116             | 113             | 6.26            | 251                    | 5.95            |
|                         | Thallium (Tl)-Dissolved (mg/L)   |              | 0.000059        | <0.000010       | <0.000010       | <0.000010              | <0.000010       |
|                         | Tin (Sn)-Dissolved (mg/L)        |              | <0.00010        | <0.00010        | <0.00010        | <0.00010               | <0.00010        |
|                         | Titanium (Ti)-Dissolved (mg/L)   |              | <0.00030        | 0.00084         | 0.00056         | <0.0015 <sup>DLM</sup> | 0.00058         |
|                         | Uranium (U)-Dissolved (mg/L)     |              | 0.000231        | 0.00145         | 0.000502        | 0.00143                | 0.000457        |
|                         | Vanadium (V)-Dissolved (mg/L)    |              | <0.00050        | <0.00050        | <0.00050        | 0.00140                | <0.00050        |
|                         | Zinc (Zn)-Dissolved (mg/L)       |              | 0.899           | 0.0236          | 0.0030          | 0.0109                 | 0.0059          |
|                         | Zirconium (Zr)-Dissolved (mg/L)  |              | <0.00030        |                 |                 |                        |                 |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

# ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         | Sample ID<br>Description<br>Sampled Date<br>Sampled Time<br>Client ID | L1608599-16<br>Water<br><br>0146-1505-<br>TRAVEL BLANK | L1608599-17<br>Water<br>05-MAY-15<br>14:45<br>0146-150505-019 | L1608599-18<br>Water<br>05-MAY-15<br>16:50<br>0146-150505-026 | L1608599-19<br>Water<br>05-MAY-15<br>15:55<br>0146-150505-027 | L1608599-20<br>Water<br>06-MAY-15<br>08:45<br>0146-150506-001 |
|-------------------------|---|--|---|---|---|---|
| Grouping                | Analyte   |  |   |   |   |   |
| <b>WATER</b>            |   |  |   |   |   |   |
| <b>Dissolved Metals</b> | Lithium (Li)-Dissolved (mg/L)   |  | <0.0010   | <0.0010   | 0.0023  | <0.0010   |
|                         | Magnesium (Mg)-Dissolved (mg/L)                                       |  | 5.39  | 6.13  | 44.8  | 16.1  |
|                         | Manganese (Mn)-Dissolved (mg/L)                                       |  | 0.212   | 0.180   | 1.38  | 0.139   |
|                         | Mercury (Hg)-Dissolved (mg/L)   |  | 0.0000108   | 0.0000094   | <0.0000050  | 0.0000107   |
|                         | Molybdenum (Mo)-Dissolved (mg/L)                                      |  | 0.000076  | 0.000073  | 0.000275  | <0.000050   |
|                         | Nickel (Ni)-Dissolved (mg/L)  |  | 0.00089   | 0.00103   | 0.00108   | 0.00300   |
|                         | Phosphorus (P)-Dissolved (mg/L)                                       |  | <0.050  | <0.050  | <0.050  | <0.050  |
|                         | Potassium (K)-Dissolved (mg/L)  |  | 2.19  | 2.28  | 3.04  | 2.02  |
|                         | Selenium (Se)-Dissolved (mg/L)  |  | <0.000050   | <0.000050   | 0.000058  | <0.000050   |
|                         | Silicon (Si)-Dissolved (mg/L)   |  | 3.24  | 3.38  | 4.28  | 3.11  |
|                         | Silver (Ag)-Dissolved (mg/L)  |  | 0.000016  | 0.000016  | <0.000010   | <0.000010   |
|                         | Sodium (Na)-Dissolved (mg/L)  |  | 1.87  | 1.96  | 7.51  | 1.37  |
|                         | Strontium (Sr)-Dissolved (mg/L)                                       |  | 0.193   | 0.210   | 0.413   | 0.117   |
|                         | Sulfur (S)-Dissolved (mg/L)   |  | 16.2  | 19.5  | 129   | 58.2  |
|                         | Thallium (Tl)-Dissolved (mg/L)  |  | <0.000010   | <0.000010   | <0.000010   | <0.000010   |
|                         | Tin (Sn)-Dissolved (mg/L)   |  | <0.00010  | <0.00010  | <0.00010  | <0.00010  |
|                         | Titanium (Ti)-Dissolved (mg/L)  |  | 0.00270   | 0.00226   | 0.00086   | 0.00068   |
|                         | Uranium (U)-Dissolved (mg/L)  |  | 0.000168  | 0.000161  | 0.00160   | <0.000010   |
|                         | Vanadium (V)-Dissolved (mg/L)   |  | <0.00050  | <0.00050  | <0.00050  | <0.00050  |
|                         | Zinc (Zn)-Dissolved (mg/L)  |  | 0.0066  | 0.138   | 0.0164  | 1.15  |
|                         | Zirconium (Zr)-Dissolved (mg/L)                                       |  |   |   |   |   |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         |                                  | Sample ID    | L1608599-21     | L1608599-22     | L1608599-23     | L1608599-24     | L1608599-25     |
|-------------------------|----------------------------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                         |                                  | Description  | Water           | Water           | Water           | Water           | Water           |
|                         |                                  | Sampled Date | 06-MAY-15       | 06-MAY-15       | 06-MAY-15       | 06-MAY-15       | 06-MAY-15       |
|                         |                                  | Sampled Time | 08:15           | 09:45           | 09:25           | 11:10           | 08:20           |
|                         |                                  | Client ID    | 0146-150506-006 | 0146-150506-004 | 0146-150506-002 | 0146-150506-005 | 0146-150506-003 |
| Grouping                | Analyte                          |              |                 |                 |                 |                 |                 |
| <b>WATER</b>            |                                  |              |                 |                 |                 |                 |                 |
| <b>Dissolved Metals</b> | Lithium (Li)-Dissolved (mg/L)    |              | <0.0010         | 0.0058          | 0.0047          | <0.0010         | 0.0012          |
|                         | Magnesium (Mg)-Dissolved (mg/L)  |              | 1.90            | 65.2            | 44.4            | 5.63            | 31.4            |
|                         | Manganese (Mn)-Dissolved (mg/L)  |              | 0.00280         | 0.285           | 0.867           | 0.0116          | 0.305           |
|                         | Mercury (Hg)-Dissolved (mg/L)    |              | 0.0000131       | <0.0000050      | <0.0000050      | 0.0000095       | 0.0000104       |
|                         | Molybdenum (Mo)-Dissolved (mg/L) |              | <0.000050       | 0.000436        | 0.000197        | <0.000050       | <0.000050       |
|                         | Nickel (Ni)-Dissolved (mg/L)     |              | 0.00145         | 0.00104         | 0.00081         | <0.00050        | 0.00387         |
|                         | Phosphorus (P)-Dissolved (mg/L)  |              | <0.050          | <0.050          | <0.050          | <0.050          | <0.050          |
|                         | Potassium (K)-Dissolved (mg/L)   |              | 1.75            | 4.51            | 3.93            | 11.8            | 2.24            |
|                         | Selenium (Se)-Dissolved (mg/L)   |              | <0.000050       | 0.000113        | <0.000050       | 0.000063        | <0.000050       |
|                         | Silicon (Si)-Dissolved (mg/L)    |              | 2.65            | 4.01            | 5.74            | 6.20            | 3.17            |
|                         | Silver (Ag)-Dissolved (mg/L)     |              | <0.000010       | 0.000029        | 0.000010        | 0.000033        | <0.000010       |
|                         | Sodium (Na)-Dissolved (mg/L)     |              | 0.987           | 3.97            | 3.67            | 0.910           | 1.82            |
|                         | Strontium (Sr)-Dissolved (mg/L)  |              | 0.0435          | 0.327           | 0.300           | 0.0623          | 0.175           |
|                         | Sulfur (S)-Dissolved (mg/L)      |              | 4.18            | 180             | 115             | 12.8            | 99.9            |
|                         | Thallium (Tl)-Dissolved (mg/L)   |              | <0.000010       | 0.000046        | 0.000015        | <0.000010       | <0.000010       |
|                         | Tin (Sn)-Dissolved (mg/L)        |              | <0.00010        | <0.00010        | <0.00010        | <0.00010        | <0.00010        |
|                         | Titanium (Ti)-Dissolved (mg/L)   |              | 0.00068         | 0.00079         | 0.00030         | 0.00032         | 0.00042         |
|                         | Uranium (U)-Dissolved (mg/L)     |              | <0.000010       | 0.00235         | 0.00152         | 0.000019        | <0.000010       |
|                         | Vanadium (V)-Dissolved (mg/L)    |              | <0.00050        | <0.00050        | <0.00050        | <0.00050        | <0.00050        |
|                         | Zinc (Zn)-Dissolved (mg/L)       |              | 0.0111          | 0.275           | 0.238           | 0.0075          | 2.05            |
|                         | Zirconium (Zr)-Dissolved (mg/L)  |              |                 |                 |                 |                 |                 |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

|                         |                                  | Sample ID    | L1608599-26     | L1608599-27             | L1608599-28             | L1608599-29           | L1608599-30     |
|-------------------------|----------------------------------|--------------|-----------------|-------------------------|-------------------------|-----------------------|-----------------|
|                         |                                  | Description  | Water           | Water                   | Water                   | Water                 | Water           |
|                         |                                  | Sampled Date | 06-MAY-15       | 06-MAY-15               | 06-MAY-15               | 06-MAY-15             | 06-MAY-15       |
|                         |                                  | Sampled Time | 10:23           | 10:25                   | 12:45                   | 11:55                 | 12:00           |
|                         |                                  | Client ID    | 0146-150506-031 | 0146-150506-032         | 0146-150506-010         | 0146-150506-009       | 0146-150506-016 |
| Grouping                | Analyte                          |              |                 |                         |                         |                       |                 |
| <b>WATER</b>            |                                  |              |                 |                         |                         |                       |                 |
| <b>Dissolved Metals</b> | Lithium (Li)-Dissolved (mg/L)    | <0.0010      | 0.0080          | <0.0050 <sup>DLA</sup>  | 0.0086                  | 0.0017                |                 |
|                         | Magnesium (Mg)-Dissolved (mg/L)  | 4.37         | 53.4            | 85.6                    | 205                     | 11.2                  |                 |
|                         | Manganese (Mn)-Dissolved (mg/L)  | 0.0233       | 1.17            | 37.1                    | 26.9                    | 0.00718               |                 |
|                         | Mercury (Hg)-Dissolved (mg/L)    | 0.0000179    | <0.0000050      | 0.0000074               | <0.0000050              | <0.0000050            |                 |
|                         | Molybdenum (Mo)-Dissolved (mg/L) | 0.000061     | 0.000281        | <0.00025 <sup>DLA</sup> | 0.00027                 | 0.000146              |                 |
|                         | Nickel (Ni)-Dissolved (mg/L)     | 0.00117      | 0.00216         | 0.0112                  | 0.0210                  | <0.00050              |                 |
|                         | Phosphorus (P)-Dissolved (mg/L)  | <0.050       | <0.050          | 0.076                   | <0.050                  | <0.050                |                 |
|                         | Potassium (K)-Dissolved (mg/L)   | 5.91         | 3.49            | 3.53                    | 2.09                    | 2.97                  |                 |
|                         | Selenium (Se)-Dissolved (mg/L)   | 0.000055     | <0.000050       | <0.00025 <sup>DLA</sup> | <0.00025 <sup>DLA</sup> | 0.000072              |                 |
|                         | Silicon (Si)-Dissolved (mg/L)    | 4.41         | 6.19            | 2.83                    | 4.92                    | 1.58                  |                 |
|                         | Silver (Ag)-Dissolved (mg/L)     | 0.000033     | <0.000010       | 0.000200 <sup>DLA</sup> | 0.000367                | 0.000020              |                 |
|                         | Sodium (Na)-Dissolved (mg/L)     | 0.819        | 4.30            | <0.25 <sup>DLA</sup>    | 4.66                    | 0.361                 |                 |
|                         | Strontium (Sr)-Dissolved (mg/L)  | 0.0579       | 0.349           | 0.181                   | 0.649                   | 0.124                 |                 |
|                         | Sulfur (S)-Dissolved (mg/L)      | 12.0         | 130             | 302                     | 660                     | 31.9                  |                 |
|                         | Thallium (Tl)-Dissolved (mg/L)   | 0.000012     | 0.000076        | 0.000055                | 0.000076                | <0.000010             |                 |
|                         | Tin (Sn)-Dissolved (mg/L)        | <0.00010     | <0.00010        | <0.00050 <sup>DLA</sup> | <0.00050 <sup>DLA</sup> | <0.00010              |                 |
|                         | Titanium (Ti)-Dissolved (mg/L)   | 0.00262      | <0.00030        | <0.0015 <sup>DLA</sup>  | <0.0015 <sup>DLA</sup>  | <0.00030              |                 |
|                         | Uranium (U)-Dissolved (mg/L)     | 0.000056     | 0.00313         | 0.000504 <sup>DLA</sup> | 0.000162                | 0.000194              |                 |
|                         | Vanadium (V)-Dissolved (mg/L)    | <0.00050     | <0.00050        | <0.0025 <sup>DLA</sup>  | <0.0025 <sup>DLA</sup>  | <0.00050              |                 |
|                         | Zinc (Zn)-Dissolved (mg/L)       | 0.0768       | 1.07            | 22.9                    | 25.1                    | 0.0181 <sup>DTC</sup> |                 |
|                         | Zirconium (Zr)-Dissolved (mg/L)  |              |                 |                         |                         |                       |                 |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

| Grouping                | Analyte                          | Sample ID   | Description | Sampled Date | Sampled Time   | Client ID       |
|-------------------------|----------------------------------|-------------|-------------|--------------|----------------|-----------------|
|                         |                                  | L1608599-31 | Water       | 06-MAY-15    | 13:20          | 0146-150506-018 |
| <b>WATER</b>            |                                  |             |             |              |                |                 |
| <b>Dissolved Metals</b> | Lithium (Li)-Dissolved (mg/L)    |             |             | 0.0067       |                |                 |
|                         | Magnesium (Mg)-Dissolved (mg/L)  |             |             | 199          |                |                 |
|                         | Manganese (Mn)-Dissolved (mg/L)  |             |             | 0.108        | <sup>DTC</sup> |                 |
|                         | Mercury (Hg)-Dissolved (mg/L)    |             |             | <0.0000050   |                |                 |
|                         | Molybdenum (Mo)-Dissolved (mg/L) |             |             | <0.00010     | <sup>DLA</sup> |                 |
|                         | Nickel (Ni)-Dissolved (mg/L)     |             |             | <0.0010      | <sup>DLA</sup> |                 |
|                         | Phosphorus (P)-Dissolved (mg/L)  |             |             | <0.050       |                |                 |
|                         | Potassium (K)-Dissolved (mg/L)   |             |             | 5.89         |                |                 |
|                         | Selenium (Se)-Dissolved (mg/L)   |             |             | 0.00037      |                |                 |
|                         | Silicon (Si)-Dissolved (mg/L)    |             |             | 2.29         |                |                 |
|                         | Silver (Ag)-Dissolved (mg/L)     |             |             | <0.000020    | <sup>DLA</sup> |                 |
|                         | Sodium (Na)-Dissolved (mg/L)     |             |             | 0.61         |                |                 |
|                         | Strontium (Sr)-Dissolved (mg/L)  |             |             | 0.915        |                |                 |
|                         | Sulfur (S)-Dissolved (mg/L)      |             |             | 777          |                |                 |
|                         | Thallium (Tl)-Dissolved (mg/L)   |             |             | 0.000059     |                |                 |
|                         | Tin (Sn)-Dissolved (mg/L)        |             |             | <0.00020     | <sup>DLA</sup> |                 |
|                         | Titanium (Ti)-Dissolved (mg/L)   |             |             | <0.00060     | <sup>DLA</sup> |                 |
|                         | Uranium (U)-Dissolved (mg/L)     |             |             | 0.00169      |                |                 |
|                         | Vanadium (V)-Dissolved (mg/L)    |             |             | <0.0010      | <sup>DLA</sup> |                 |
|                         | Zinc (Zn)-Dissolved (mg/L)       |             |             | 0.317        |                |                 |
|                         | Zirconium (Zr)-Dissolved (mg/L)  |             |             | <0.00060     | <sup>DLA</sup> |                 |

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## Reference Information

## Qualifiers for Individual Samples Listed:

| Sample Number | Client Sample ID | Qualifier | Description   |
|---------------|------------------|-----------|---|
| L1608599-6    | 0146-150504-037  | WSMD      | Water sample(s) for dissolved mercury analysis was not submitted in glass or PTFE container with HCl preservative. Results may be biased low. |

## QC Samples with Qualifiers &amp; Comments:

| QC Type Description | Parameter                                       | Qualifier | Applies to Sample Number(s)   |
|---------------------|---|-----------|---|
| Method Blank        | Alkalinity, Bicarbonate (as CaCO <sub>3</sub> ) | B         | L1608599-1, -2  |
| Method Blank        | Alkalinity, Total (as CaCO <sub>3</sub> )       | B         | L1608599-1, -2  |
| Duplicate           | Cyanate   | DLIS      | L1608599-1, -10, -11, -2, -3, -4, -6, -7, -8, -9  |
| Duplicate           | Cyanate   | DLIS      | L1608599-12, -13, -14, -15, -16, -17, -18, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31  |
| Duplicate           | Cadmium (Cd)-Dissolved                          | DLM       | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Duplicate           | Titanium (Ti)-Dissolved                         | DLM       | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Duplicate           | Titanium (Ti)-Dissolved                         | DLM       | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Method Blank        | Chromium (Cr)-Total                             | MB-LOR    | L1608599-10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21, -22, -6, -7, -8, -9   |
| Matrix Spike        | Arsenic (As)-Dissolved                          | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Sodium (Na)-Dissolved                           | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Strontium (Sr)-Dissolved                        | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Barium (Ba)-Dissolved                           | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Sodium (Na)-Dissolved                           | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Strontium (Sr)-Dissolved                        | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Calcium (Ca)-Dissolved                          | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Silicon (Si)-Dissolved                          | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Sulfur (S)-Dissolved                            | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Silicon (Si)-Dissolved                          | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Sodium (Na)-Dissolved                           | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Strontium (Sr)-Dissolved                        | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Cobalt (Co)-Dissolved                           | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Manganese (Mn)-Dissolved                        | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |
| Matrix Spike        | Nickel (Ni)-Dissolved                           | MS-B      | L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31,                        |

## Reference Information

|              | Parameter                | Qualifier | Applies to Sample Number(s)   |
|--------------|--------------------------|-----------|---|
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B      | -4, -5, -6, -7, -8, -9<br>L1608599-1, -10, -11, -12, -13, -14, -15, -17, -18, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -30, -31, -4, -5, -6, -7, -8, -9 |

### Qualifiers for Individual Parameters Listed:

| Qualifier | Description   |
|-----------|---|
| B         | Method Blank exceeds ALS DQO. All associated sample results are at least 5 times greater than blank levels and are considered reliable. |
| DLA       | Detection Limit adjusted for required dilution  |
| DLB       | Detection Limit was raised due to detection of analyte at comparable level in Method Blank.   |
| DLIS      | Detection Limit Adjusted: Insufficient Sample   |
| DLM       | Detection Limit Adjusted due to sample matrix effects.  |
| DTC       | Dissolved concentration exceeds total. Results were confirmed by re-analysis.   |
| MB-LOR    | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.               |
| MS-B      | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.                                      |

### Test Method References:

| ALS Test Code         | Matrix | Test Description  | Method Reference**      |
|-----------------------|--------|---|-------------------------|
| <b>ALK-PCT-VA</b>     | Water  | Alkalinity by Auto. Titration   | APHA 2320 "Alkalinity"  |
|                       |        | This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.  |                         |
| <b>ALK-PCT-VA</b>     | Water  | Alkalinity by Auto. Titration   | APHA 2320 Alkalinity    |
|                       |        | This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.  |                         |
| <b>BE-D-L-CCMS-VA</b> | Water  | Diss. Be (low) in Water by CRC ICPMS  | APHA 3030B/6020A (mod)  |
|                       |        | Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.  |                         |
|                       |        | Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.  |                         |
| <b>BE-T-L-CCMS-VA</b> | Water  | Total Be (Low) in Water by CRC ICPMS  | EPA 200.2/6020A (mod)   |
|                       |        | Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.   |                         |
|                       |        | Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.  |                         |
| <b>CL-IC-N-WR</b>     | Water  | Chloride in Water by IC   | EPA 300.1 (mod)         |
|                       |        | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.  |                         |
| <b>CN-CNO-WT</b>      | Water  | Cyanate   | APHA 4500-CN-L          |
|                       |        | This analysis is carried out using procedures adapted from APHA method 4500-CN "Cyanide". Cyanate is determined by the Cyanate hydrolysis method using an ammonia selective electrode   |                         |
| <b>CN-SCN-VA</b>      | Water  | Thiocyanate by Colour   | APHA 4500-CN CYANIDE    |
|                       |        | This analysis is carried out using procedures adapted from APHA Method 4500-CN- M "Thiocyanate" Thiocyanate is determined by the ferric nitrate colourimetric method.   |                         |
| <b>CN-T-CFA-VA</b>    | Water  | Total Cyanide in water by CFA   | ISO 14403:2002          |
|                       |        | This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero. |                         |
| <b>CN-WAD-CFA-VA</b>  | Water  | Weak Acid Diss. Cyanide in water by CFA   | APHA 4500-CN CYANIDE    |
|                       |        | This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.   |                         |
| <b>EC-PCT-VA</b>      | Water  | Conductivity (Automated)  | APHA 2510 Auto. Conduc. |
|                       |        | This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.  |                         |
| <b>F-IC-N-WR</b>      | Water  | Fluoride in Water by IC   | EPA 300.1 (mod)         |



## Reference Information

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

**HARDNESS-CALC-VA** Water Hardness APHA 2340B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO<sub>3</sub> equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

**HG-D-CVAA-VA** Water Diss. Mercury in Water by CVAAS or CVAFS APHA 3030B/EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

**HG-T-CVAA-VA** Water Total Mercury in Water by CVAAS or CVAFS EPA 1631E (mod)

Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.

**IONBALANCE-VA** Water Ion Balance Calculation APHA 1030E

Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.

Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance is calculated as:

Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]

**MET-D-CCMS-VA** Water Dissolved Metals in Water by CRC ICPMS APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

**MET-DIS-LOW-ICP-VA** Water Dissolved Metals in Water by ICPOES EPA 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

**MET-T-CCMS-VA** Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

**MET-TOT-LOW-ICP-VA** Water Total Metals in Water by ICPOES EPA 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

**NH3-F-VA** Water Ammonia in Water by Fluorescence APHA 4500 NH3-NITROGEN (AMMONIA)

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

**NH3-F-VA** Water Ammonia in Water by Fluorescence J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

**NO2-L-IC-N-WR** Water Nitrite in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

**NO3-L-IC-N-WR** Water Nitrate in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

**PH-PCT-VA** Water pH by Meter (Automated) APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

## Reference Information

**PH-PCT-VA**                      Water              pH by Meter (Automated)                                      APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

**S-DIS-ICP-VA**                      Water              Dissolved Sulfur in Water by ICPOES                                      EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

**S-TOT-ICP-VA**                      Water              Total Sulfur in Water by ICPOES                                      EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

**SO4-IC-N-WR**                      Water              Sulfate in Water by IC                                      EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

**TDS-CALC-VA**                      Water              TDS (Calculated)                                      APHA 1030E (20TH EDITION)

This analysis is carried out using procedures adapted from APHA 1030E "Checking Correctness of Analyses".

**TSS-MAN-WR**                      Water              Total Suspended Solids by Gravimetric                                      APHA 2540 D

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and drying the filter at 104 degrees celsius.

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                                     |
|----------------------------|---|
| WR                         | ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA           |
| WT                         | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA           |
| VA                         | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

**Chain of Custody Numbers:**

1                                      2                                      3                                      4                                      5

**GLOSSARY OF REPORT TERMS**

*Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.*

*mg/kg - milligrams per kilogram based on dry weight of sample.*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample.*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.*

*mg/L - milligrams per litre.*

*< - Less than.*

*D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

**UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.**

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*



# Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

www.alsglobal.com



L1608599-COFC

COC Number: 14 -

Page \_\_\_ of \_\_\_

| <b>Report To</b><br>Company: EDI<br>Contact: Meghan Marjanovic<br>Address: 2195 - 2nd Avenue<br>Whitehorse, YT Y1A 3T8<br>Phone: 867-393-4882   |                          | <b>Réport Format / Dist</b><br>Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL                                       |                  | Turnaround Time (TAT) is not available for all tests<br>by 3 pm - business days   |               |                    |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|--------------------------|--|------------------|---|---------------|--------------------|--------------------------|--|------------------|--------------------------|--|--------------|--------------------------|--|----------|----------------|----------------|--------------|-------------|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>Invoice To</b> Same as Report To <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Copy of Invoice with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |                          | <b>Invoice Distribution</b><br>Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX             |                  | <b>Analysis Request</b><br>Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below   |               |                    |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Company:</b> EDI<br><b>Contact:</b> S Jenner   |                          | Email 1 or Fax: sjenner@edynamics.com<br>Email 2: mmarjanovic@edynamics.com  |                  | <table border="1"> <tr> <td>P</td><td><input type="checkbox"/></td> <td>Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT</td> </tr> <tr> <td>E</td><td><input type="checkbox"/></td> <td>Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT</td> </tr> <tr> <td>E2</td><td><input type="checkbox"/></td> <td>Same day or weekend emergency - contact ALS to confirm TAT and surcharge</td> </tr> </table>   |               | P                  | <input type="checkbox"/> | Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT | E                | <input type="checkbox"/> | Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT | E2           | <input type="checkbox"/> | Same day or weekend emergency - contact ALS to confirm TAT and surcharge |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| P   | <input type="checkbox"/> | Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT   |                  |   |               |                    |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| E   | <input type="checkbox"/> | Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT   |                  |   |               |                    |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| E2  | <input type="checkbox"/> | Same day or weekend emergency - contact ALS to confirm TAT and surcharge   |                  |   |               |                    |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Project Information</b><br>ALS Quote #: Q49310<br>Job #: MOUNT NANSEN 15-Y-0146<br>PO / AFE:<br>LSD:   |                          | <b>Oil and Gas Required Fields (client use)</b><br>Approver ID: _____ Cost Center: _____<br>GL Account: _____ Routing Code: _____<br>Activity Code: _____<br>Location: _____ |                  | Specify Date Required for E2, E or P: _____   |               |                    |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ALS Lab Work Order # (lab use only)   |                          | ALS Contact: Sean Slugget<br>Sampler: DH, BP, DS   |                  | <table border="1"> <tr> <th>ALK-PCT-VA</th> <th>EC-PCT-VA</th> <th>PH-PCT-VA</th> <th>ANIONS-ALL-IC-WR</th> <th>TSS-MAN-WR</th> <th>CN-WAD-CFA-VA</th> <th>CN-T-CFA-VA</th> <th>CN-CNO-WT</th> <th>CN-SCN-VA</th> <th>NH3-F-VA</th> <th>MET-T-SCMDG-VA</th> <th>MET-D-SCMDG-VA</th> <th>IONBALANC-VA</th> <th>TDS-CALC-VA</th> <th>Number of Containers</th> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> <tr> <td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>R</td><td>9</td> </tr> </table> |               | ALK-PCT-VA         | EC-PCT-VA                | PH-PCT-VA  | ANIONS-ALL-IC-WR | TSS-MAN-WR               | CN-WAD-CFA-VA  | CN-T-CFA-VA  | CN-CNO-WT                | CN-SCN-VA  | NH3-F-VA | MET-T-SCMDG-VA | MET-D-SCMDG-VA | IONBALANC-VA | TDS-CALC-VA | Number of Containers | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | 9 |
| ALK-PCT-VA  | EC-PCT-VA                | PH-PCT-VA  | ANIONS-ALL-IC-WR | TSS-MAN-WR  | CN-WAD-CFA-VA | CN-T-CFA-VA        | CN-CNO-WT                | CN-SCN-VA  | NH3-F-VA         | MET-T-SCMDG-VA           | MET-D-SCMDG-VA   | IONBALANC-VA | TDS-CALC-VA              | Number of Containers   |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| R   | R                        | R  | R                | R   | R             | R                  | R                        | R  | R                | R                        | R  | R            | R                        | 9  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Sample Identification and/or Coordinates</b><br>(This description will appear on the report)   |                          | <b>Date</b><br>(dd-mmm-yy)   |                  | <b>Time</b><br>(hh:mm)  |               | <b>Sample Type</b> |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0146-150504-036   |                          | 04-May-15  |                  | 16:45   |               | Water              |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0146-150504-034   |                          | 04-May-15  |                  | 16:05   |               | Water              |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0146-150504-033   |                          | 04-May-15  |                  | 18:30   |               | Water              |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0146-150504-035   |                          | 04-May-15  |                  | 13:30   |               | Water              |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0146-150505-025   |                          | 05-May-15  |                  | 08:18   |               | Water              |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0146-150504-037   |                          | 04-May-15  |                  | 13:25   |               | Water              |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0146-150505-020   |                          | 05-May-15  |                  | 13:45   |               | Water              |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 0146-150504-Field-Blank   |                          | 04-May-15  |                  | 16:25   |               | Water              |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b><br>Are samples taken from a Regulated DW System?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are samples for human drinking water use?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                          | <b>Special Instructions / Specify Criteria to add on report (client Use)</b>   |                  | <b>SAMPLE CONDITION AS RECEIVED (lab use only)</b><br>GLE Observations: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>Custody seal intact: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>COC Initialed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>INITIAL COOLER TEMPERATURES: _____ FINAL COOLER TEMPERATURES: _____  |               |                    |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>SHIPMENT RELEASE (client use)</b><br>Released by: _____ Date: 07 May 2015 Time: 09:45  |                          | <b>FINAL SHIPMENT RECEPTION (lab use only)</b>   |                  | <b>FINAL SHIPMENT RECERTIFICATION (lab use only)</b>  |               |                    |                          |  |                  |                          |  |              |                          |  |          |                |                |              |             |                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |



# Chain of Custody (COC) / Analytical Request Form

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COC Number: 14 -

Page \_\_\_ of \_\_\_

|  |           |   |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
|--|-----------|---|-----|---|-------------------------|---|--------------------|----------------------------------|------------------------------|----------------------------|-----------|-------------|----------|----------------|----------------|---------------------------|----------------------|
| <b>Report To</b>   |           | <b>Report Format / Dis</b>  |     | <b>Analysis Request</b>   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Company: EDI   |           | Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/>                                 |     | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below  |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Contact: Meghan Marjanovic   |           | Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input type="checkbox"/> No                                  |     | P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Address: 2195 - 2nd Avenue<br>Whitehorse, YT Y1A 3T8   |           | <input type="checkbox"/> Criteria on Report - provide details below if box checked  |     | E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Phone: 867-393-4882  |           | Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX                    |     | E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge                |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
|  |           | Email 1 or Fax: mmarianovic@edynamics.com   |     | Specify Date Required for E2, E or P:   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
|  |           | Email 2:  |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| <b>Invoice To</b>  |           | <b>Invoice Distribution</b>   |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                |           | Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Copy of Invoice with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                      |           | Email 1 or Fax: sjenner@edynamics.com   |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Company: EDI   |           | Email 2: mmarianovic@edynamics.com  |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Contact: S Jenner  |           |   |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| <b>Project Information</b>   |           | <b>Oil and Gas Required Fields (client use)</b>   |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| ALS Quote #: Q49310  |           | Approver ID:  |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Job #: MOUNT NANSEN 15-Y-0146  |           | GL Account:   |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| PO / AFE:  |           | Activity Code:  |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| LSD:   |           | Location:   |     |   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| ALS Lab Work Order # (lab use only)  |           | ALS Contact: Sean Slugget   |     | Sampler: DH, BP, DS   |                         |   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| <b>ALS Sample # (lab use only)</b>   |           | <b>Sample Identification and/or Coordinates (This description will appear on the report)</b>                                      |     |   | <b>Date (dd-mmm-yy)</b> | <b>Time (hh:mm)</b>   | <b>Sample Type</b> | ALK-PCT-VA, EC-PCT-VA, PH-PCT-VA | AMIONS-ALL-IC-WR, TSS-MAN-WR | CN-WAD-CFA-VA, CN-T-CFA-VA | CN-CNO-WT | CN-SCN-VA   | NH3-F-VA | MET-T-BCMDG-VA | MET-D-BCMDG-VA | IONBALANC-VA, TDS-CALC-VA | Number of Containers |
|  | 0146-1505 | 05  | 024 | 05 - May -15  | 10:35                   | Water   | R                  | R                                | R                            | R                          | R         | R           | R        | R              | R              | R                         | 9                    |
|  | 0146-1505 | 05  | 023 | 05 - May -15  | 10:20                   | Water   | R                  | R                                | R                            | R                          | R         | R           | R        | R              | R              | R                         | 9                    |
|  | 0146-1505 | 05  | 030 | 05 - May -15  | 16:46                   | Water   | R                  | R                                | R                            | R                          | R         | R           | R        | R              | R              | R                         | 9                    |
|  | 0146-1505 | 05  | 029 | 05 - May -15  | 17:15                   | Water   | R                  | R                                | R                            | R                          | R         | R           | R        | R              | R              | R                         | 9                    |
|  | 0146-1505 | 05  | 022 | 05 - May -15  | 12:20                   | Water   | R                  | R                                | R                            | R                          | R         | R           | R        | R              | R              | R                         | 9                    |
|  | 0146-1505 | 05  | 028 | 05 - May -15  | 16:25                   | Water   | R                  | R                                | R                            | R                          | R         | R           | R        | R              | R              | R                         | 9                    |
|  | 0146-1505 | 05  | 021 | 05 - May -15  | 11:35                   | Water   | R                  | R                                | R                            | R                          | R         | R           | R        | R              | R              | R                         | 9                    |
| <b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>  |           | <b>Special Instructions / Specify Criteria to add on report (client Use)</b>  |     |   |                         | <b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>  |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Are samples taken from a Regulated DW System?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |           |   |     |   |                         | 1. Observations: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>2. Custody seal intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>3. Good in transit: <input type="checkbox"/> |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Are samples for human drinking water use?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No     |           |   |     |   |                         | INITIAL COOLER TEMPERATURES (°C) _____ FINAL COOLER TEMPERATURES (°C) _____   |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| <b>SHIPMENT RELEASE (client use)</b>   |           | <b>INITIAL SHIPMENT RECEPTION (lab use only)</b>  |     |   |                         | <b>FINAL SHIPMENT RECEPTION (lab use only)</b>  |                    |                                  |                              |                            |           |             |          |                |                |                           |                      |
| Released by: <i>[Signature]</i>  |           | Date: 07 May 2015   |     | Time: 09:51   |                         | Received by: _____  |                    | Date: _____                      |                              | Time: _____                |           | Date: _____ |          | Time: _____    |                |                           |                      |

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18-PL-0226e-009 Rev 04 January 2014

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